



OILSEEDS

A Statistical Compendium 2021

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An ISO 9001 : 2015 Certified Institute

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PREFACE

ICAR-Indian Institute of Oilseeds Research is mandated to be a repository of information on all aspects of oilseeds and vegetable oil and has been maintaining and updating the database by compilation of information from various scattered sources on statistics related to area, production, yield, processing and trade of oilseeds including annual, perennial and non-traditional sources of vegetable oils. This document “**Oilseeds:A Statistical Compendium 2021**” is an update to the 8th in the series, as per the available final estimates from the respective published sources. This Compendium provides an exhaustive data presented in an easy and comfortable reading with trend perspective. The wide range of topics covered include spatio-temporal production statistics at the global; crop-wise statistics of India encompassing districts and states; trade in terms of imports, export and pricing, detailed state profiles, coconut, oil palm, minor oilseeds, irrigation coverage, seed production, recommended varieties and hybrids, growth rates and achievements in oilseeds sector including NMOOP, NMEO-OP, and other sources of information on oilseeds. The compendium will be very useful for students, progressive farmers, research workers, extension and development personnel, policy makers, entrepreneurs and other stake holders who are involved directly or indirectly in oilseeds research and development. This compendium serves as a ready reckoner and a reference manual for data on oilseeds for suitable policy decisions on oilseeds and vegetable oils by the planners.

I am extremely thankful to Dr Trilochan Mohapatra, Secretary, DARE and Director General, ICAR, Dr T.R. Sharma, Deputy Director General (Crop Science), ICAR and Dr Sanjeev Gupta, Assistant Director General (Oilseeds & Pulses), ICAR and Dr S. K. Jha, Principal Scientist & Former ADG (Oilseeds and Pulses)(A) for their constant encouragement, guidance and support.

I appreciate the efforts of Drs. C. Sarada, K. Alivelu, Mr. V. Sambasiva Rao and Dr. S.N. Sudhakara Babu of IIOR for their strenuous attempt to compile the data from various scattered sources and organizations, verify and present the vast data of this update to the compendium. My sincere thanks are due to Ms. Sameena Begum for assisting in tabulation and organising the document. I place on record, due acknowledgements to all those sources/authors, organisations and publishers for their efforts to make available the respective data that has been compiled in this compendium. I also acknowledge the support rendered by all the staff of IIOR in preparation of this compendium.

Hyderabad

Date: 02-12-2021



(M. Sujatha)

FOREWORD

Vegetable oil is an important commodity obtained from myriad sources of plant species for consumption and industrial applications that impacts global trade and economy. The information on trends and up to date statistics of oilseeds and vegetable oils is essential for better planning and forecast for achieving sustainable oilseeds economy. Many individuals, industries and organizations are involved in different aspects of vegetable oils starting from growing of oilseed crops as per the agro-ecological situation to processing and trade. Further oilseed economy is governed by the government policies and global trade situations. Each enterprise and entity will have its own data contribution and requirement in the supply and value chain of vegetable oils. Thus, no single source can provide holistic information on 'push – pull' factors for taking informed decisions on oilseeds production and trade.

ICAR-Indian Institute of Oilseeds Research (IIOR) embarks on maintaining a repository of information on all aspects of oilseeds and vegetable oils in the country and this publication, 'Oilseeds: A Statistical Compendium 2021' is being brought out as an update to the eighth in the series updated up to 2021 from several respective sources.

The compendium of 2015 along with this update up to 2021, provides a multi-year data presented in an easy to follow trend for improved readability classified under distinct related aspects. Global status and perspective along with all India oilseeds production statistics presented for the last five decades (1971-2020) and state wise/district –wise statistics presented for the last 19 years (2001- 2020). Trade statistics are comprehended to give a picture of various products exported/imported and its trend. From the perspective of researchers and students, the compendium include information on released varieties and hybrids, their pedigree, year of release and notification, releasing centre, yield, duration, recommended states/ regions/ situations for cultivation, yield, oil content, special features, etc. Other general information like germplasm resources and maintaining units, related websites, addresses of oilseeds related industries etc. were also updated. Conduct of state wise FLDs and year wise exploitable yield gaps for each crop are presented.

Thus it is a ready source of multi-year quantitative data to understand the trends and direction for undertaking necessary policy decisions. The compendium provides an overall global perspective and detailed national status up to district level data of nine annual oilseed crops *viz.*, groundnut, rapeseed and mustard, soybean, sunflower, linseed, sesame, niger, castor and safflower compiled from available official sources, beyond the source of Department of Agriculture and Directorate of Economics and Statistics (DES).

Specifically, this update to compendium 2015 has 27 chapters with 14 chapters devoted to production statistics from the inception of official statistics on the crop up to 2019-20. Other chapters include secondary sources of vegetable oils, industries, trade, imports and exports, MSPs, germplasm resources, released varieties and hybrids, major addresses and websites related to oilseeds and vegetable oils, FLDs and status and provisions of NMOOP and NMEOP in the country. The data/information presented in this compendium is compiled from the secondary data primarily from the publications/ websites brought out by FAO, DES, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture; Directorate of Oilseeds

Development, DGCIS, SEA, etc. Databases include FAOSTAT, CMIE, India Harvest, Indiaagristat, etc. Besides these, number of other authentic resources including Oil World and other periodicals, annual reports of public and private agencies etc, were consulted and relevant data compiled. We place on record due acknowledgements to all the sources/authors, organisations and publishers.

We faced challenges in harmonising the latest data on all aspects for uniformity as the latest available data points varied for different categories/sources. Overall all the available latest data has been incorporated up to 2020-21 in this update. Despite the exhaustive efforts and care in the preparation of this compendium, we are open and appreciate receiving critical and constructive suggestions in reaching this compendium to all the stakeholders for taking informed decisions. The on-line content of this update of the compendium, in IOR website, would provide easy access of choice search.

The continued and unstinted support from ICAR, inspiration and motivation provided by Dr Trilochan Mohapatra, Secretary, DARE and Director General, Indian Council of Agricultural Research, New Delhi is behind our every effort including this publication. Cooperation and support from many individuals and organizations in running up to compilation of this magnitude is possible with an overall driving force and all-out support and guidance from Dr T.R. Sharma, DDG (Crop Science) and Dr Sanjeev Gupta, ADG (Oilseeds and Pulses).

We earnestly hope the compendium will be very useful for policy makers, entrepreneurs, students, progressive farmers, research workers, extension and development personnel and other stake holders who are involved directly or indirectly in oilseeds research and development. We wish that this compendium serves as a ready reckoner and a reference manual for data on oilseeds.

Authors

Hyderabad

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1.Oilseeds

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1.1 World Area, Production and Yield of Oilseeds

(Area in '000 ha; Production in '000 Tonnes; Yield in kg/ha)

Year	Area	Production	Yield
2015	223666	494471	2211
2016	226527	509099	2247
2017	234522	544192	2320
2018	235215	534540	2273
2019	230205	521282	2264

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

Note: Includes Castor, Groundnut, Linseed, Rapeseed & Mustard, Safflower, Sesame, Soybean and Sunflower

1.2 Crop-wise Area, Production and Yield of Oilseeds in the World

(Area in '000 ha; Production in '000 Tonnes; Yield in kg/ha)

Crop	Unit	2015	2016	2017	2018	2019
Castor	Area	1508	1426	1198	1215	1158
	Prodn.	1988.3	1594	1576	1765	1407
	Yield	1318	1118	1315	1452	1215
Groundnut	Area	26509	28386	29298	29703	29597
	Prodn.	44540	45758	48001	50889	48756
	Yield	1680	1612	1638	1713	1647
Linseed	Area	2987	2765	2922	3149	3223
	Prodn.	3149	2910	2872	2975	3068
	Yield	1054	1053	983	945	952
Rapeseed & Mustard	Area	35135	33562	36408	37845	34881
	Prodn.	70812	68920	77136	75809	71164
	Yield	2015	2054	2119	2003	2040
Safflower	Area	1053	1170	863	657	652
	Prodn.	825	948	737	610	590
	Yield	783	810	854	929	905
Sesame	Area	10083	10880	11134	11818	12821
	Prodn.	5516	5591	5723	5937	6549
	Yield	547	514	514	502	511
Soybean	Area	120902	122000	125854	124024	120502
	Prodn.	323308	335898	359532	344642	333672
	Yield	2674	2753	2857	2779	2769
Sunflower	Area	25486	26335	26842	26801	27368
	Prodn.	44329	47476	48611	51909	56072
	Yield	1739	1803	1811	1937	2049
Total	Area	223666	226527	234523	235215	230205
	Prodn.	494471	509099	544193	534540	521282
	Yield	2211	2247	2320	2273	2264

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

1.3 India's Position of World's Area and Production of Oilseeds (2019)

Crop	Area ('000 ha)		% Share	Rank in Area	Top 5 Countries in Area	Production ('000 mt)		% Share	Rank in Production	Top 5 Countries in Production
	World	India				World	India			
Groundnut	29597	4730	15.9	First	India	48756	6727	13.8	Second	China
					China					India
					Nigeria					Nigeria
					Sudan (Farmer)					Sudan (Farmer)
					Senegal					U.S.A.
Sunflower	27369	262	0.9	Seventeenth	Russia	56072	216	0.3	Twenty First	Russia
					Ukraine					Ukraine
					Argentina					Argentina
					Romania					Romania
Soybean	120502	11131	9.2	Fourth	Brazil	333671	13268	3.9	Fifth	Brazil
					U.S.A.					U.S.A.
					Argentina					Argentina
					India					China
					China					India
Castor	1158.6	751	64.8	First	India	1407	1196	85.0	First	India
					Mozambique					Mozambique
					Brazil					China
					China					Brazil
Linseed	3223.5	172	5.3	Fifth	Kazakhstan	3068	99	3.2	Fifth	Kazakhstan
					Russia					Russia
					Canada					Canada
					China					China
					India					India
Safflower	652.78	45.8	7.0	Fourth	Kazakhstan	590	24	4.1	Sixth	Kazakhstan
					Russian federation					U.S.A.
					U.S.A.					Russian federation
					India					Mexico
Sesame	12822	1420	11.8	Third	Sudan	6549	689	10.5	Third	Sudan
					Myanmar					Myanmar
					India					India
					United Republic of Tanzania					United Republic of Tanzania
					South Sudan					Nigeria
Rapeseed & Mustard	34881	6123	17.5	Third	Canada	71164	9255	13.0	Third	Canada
					China					China
					India					India
					Australia					France

Crop	Area ('000 ha)		% Share	Rank in Area	Top 5 Countries in Area	Production ('000 mt)		% Share	Rank in Production	Top 5 Countries in Production
Cotton					Russian Federation					Ukraine
	32420	12350	38.0	First	India	71029	14657	20.6	Second	China
					China					India
					USA					USA
					Pakistan					Brazil
				Brazil					Pakistan	

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

1.4 All India Area, Production and Yield of Nine Oilseeds

(Area in '000 ha; Production in '000 Tonnes; Yield in kg/ha)

Year	Kharif			Rabi			Total		
	Area	Prod	Yield	Area	Prod	Yield	Area	Prod	Yield
2015-16	18863	16680	884	7224	8571	1186	26087	25251	968
2016-17	18675	21526	1153	7502	9750	1300	26177	31276	1195
2017-18	17228	21006	1219	7279	10453	1436	24508	31459	1284
2018-19	17709	20676	1168	7085	10846	1531	24794	31522	1271
2019-20	19284	22247	1154	7856	10972	1397	27139	33219	1224

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

1.5 Crop-wise All India Area, Production and Yield of Nine Oilseeds

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop		2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Area	1061	808	824	751	1046
	Prodn.	1752	1376	1568	1197	1842
	Yield	1652	1704	1902	1593	1761
Groundnut	Area	4596	5338	4888	4731	9650
	Prodn.	6733	7462	9253	6727	19904
	Yield	1465	1398	1893	1422	6430
Linseed	Area	263	325	326	173	180
	Prodn.	126	184	174	99	121
	Yield	477	567	533	574	671
Niger	Area	252	256.41	218	156	136
	Prodn.	74	85.14	70	45	41
	Yield	295	332	321	290	303
Rapeseed & Mustard	Area	5746	6074	5977	6124	6856
	Prodn.	6797	7917	8430	9256	9124
	Yield	1183	1304	1410	1511	1331
Safflower	Area	127.50	144	82	46	52
	Prodn.	52.99	94	55	25	44
	Yield	416	651	673	537	843
Sesame	Area	1951	1667	1580	1420	1623
	Prodn.	850	747	755	689	658
	Yield	436	448	478	485	405
Soybean	Area	11604	11183	10329	11131	12193
	Prodn.	8570	13158	10933	13268	11226

Crop		2015-16	2016-17	2017-18	2018-19	2019-20
Sunflower	Yield	738	1177	1058	1192	921
	Area	487	381.11	284	262	457
	Prodn.	296	251.38	222	216	425
	Yield	608	660	782	826	2837
Total	Area	26087	26177	24508	24794	32193
	Prodn.	25251	31276	31459	31522	43384
	Yield	968	1195	1284	1271	15501

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

1.6 Crop-wise Per cent Area to Total Oilseeds Area in India

Year	Castor	Groundnut	Linseed	Niger	Rapeseed & Mustard	Safflower	Sesame	Soybean	Sunflower
2015-16	4.1	17.6	1.0	1.0	22.0	0.5	7.5	44.5	1.9
2016-17	3.1	20.4	1.4	1.0	23.2	0.6	6.4	42.7	1.4
2017-18	3.3	19.8	1.4	0.9	24.3	0.3	6.3	42.3	1.3
2018-19	3.0	19.1	0.7	0.6	24.7	0.2	5.7	44.9	1.1
2019-20	3.9	17.8	0.7	0.5	25.3	0.2	6.0	44.9	0.8

Source: Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

1.7 Crop-wise Per cent Production to Total Oilseeds Production in India

Year	Castor	Groundnut	Linseed	Niger	Rapeseed & Mustard	Safflower	Sesame	Soybean	Sunflower
2015-16	6.9	26.7	0.5	0.3	26.9	0.2	3.4	33.9	1.2
2016-17	4.4	23.9	0.6	0.3	25.3	0.3	2.4	42.1	0.8
2017-18	4.9	29.2	0.6	0.3	26.3	0.2	2.4	35.7	0.7
2018-19	3.8	21.3	0.3	0.1	29.4	0.1	2.2	42.1	0.7
2019-20	5.5	30.0	0.4	0.1	27.5	0.1	2.0	33.8	0.6

Source: Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

2. Groundnut

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2.1 World Area, Production and Yield of Groundnut

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

2015	26509	44541	1680
2016	28387	45758	1612
2017	29298	48001	1638
2018	29703	50890	1713
2019	29597	48757	1647

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

2.2 Area, Production and Yield of Groundnut in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Algeria	Area	2	3	4	5	5
	Prodn.	3	7	10	12	13
	Yield	1612	2091	2774	2501	2579
Angola	Area	335	345	325	338	337
	Prodn.	267	270	218	212	212
	Yield	798	784	669	628	629
Argentina	Area	425	342	334	444	387
	Prodn.	1011	1001	1031	921	1337
	Yield	2380	2929	3087	2076	3455
Australia	Area	5	5	6	4	4
	Prodn.	16	15	17	15	14
	Yield	3240	3098	3008	3383	3260
Bangladesh	Area	32	36	37	38	35
	Prodn.	57	62	66	67	63
	Yield	1786	1744	1790	1757	1782
Benin	Area	158	159	168	226	209
	Prodn.	134	137	143	226	203
	Yield	850	861	852	998	973
Bolivia	Area	19	19	19	19	19
	Prodn.	21	26	25	27	28
	Yield	1092	1351	1331	1405	1479
Botswana	Area	1	1	1	2	1
	Prodn.	0	0	0	0	0
	Yield	237	298	162	189	138
Brazil	Area	148	155	154	152	172
	Prodn.	500	560	547	563	581

	Yield	3382	3626	3545	3710	3384
	Area	0	0	0	0	0
Bulgaria	Prodn.	0	1	1	0	0
	Yield	2113	1902	1695	0	0
	Area	433	592	555	394	486
Burkina Faso	Prodn.	366	519	334	330	396
	Yield	846	878	603	837	816
	Area	22	12	11	19	16
Burundi	Prodn.	13	7	9	12	10
	Yield	579	605	807	644	603
	Area	18	18	18	18	17
Cambodia	Prodn.	29	29	20	20	21
	Yield	1587	1587	1111	1111	1217
	Area	436	454	430	440	445
Cameroon	Prodn.	609	748	480	480	500
	Yield	1398	1648	1116	1091	1124
	Area	97	112	123	119	110
Central African Republic	Prodn.	116	135	150	156	144
	Yield	1202	1202	1219	1305	1304
	Area	578	791	768	787	824
Chad	Prodn.	720	871	870	894	939
	Yield	1246	1102	1133	1136	1140
	Area	4407	4469	4629	4641	4508
China	Prodn.	16021	16423	17155	17391	17573
	Yield	3636	3675	3706	3748	3898
	Area	2	4	3	2	3
Colombia	Prodn.	2	4	6	4	5
	Yield	1094	989	1867	1628	1694
	Area	1	1	1	1	1
Comoros	Prodn.	1	1	1	1	1
	Yield	842	841	841	842	843
	Area	48	46	46	45	45
Congo	Prodn.	26	25	25	24	24
	Yield	530	540	538	536	534
	Area	120	138	142	117	105
Côte d'Ivoire	Prodn.	179	190	202	170	156
	Yield	1487	1376	1426	1458	1490
	Area	6	6	6	5	5
Cuba	Prodn.	6	6	6	6	5
	Yield	1052	1050	1054	1057	1060
	Area	492	495	495	495	495
Democratic Republic of the Congo	Prodn.	422	295	443	445	455
	Yield	858	596	896	900	920

Dominican Republic	Area	4	4	5	5	5
	Prodn.	5	6	6	6	7
	Yield	1340	1340	1352	1351	1406
Ecuador	Area	19	19	19	19	20
	Prodn.	23	23	23	24	25
Egypt	Yield	1206	1209	1229	1248	1268
	Area	60	64	66	60	66
	Prodn.	197	206	243	210	231
	Yield	3282	3207	3711	3527	3503
	Area	3	3	3	3	3
Eritrea	Prodn.	2	2	2	2	2
	Yield	751	750	744	740	734
	Area	4	3	2	2	2
Eswatini	Prodn.	2	1	1	1	1
	Yield	429	421	404	385	367
	Area	67	75	81	84	88
Ethiopia	Prodn.	115	130	145	144	157
	Yield	1709	1732	1796	1711	1780
	Area	0	0	0	0	0
Fiji	Prodn.	0	0	0	0	0
	Yield	839	840	834	828	824
	Area	29	28	34	31	33
Gabon	Prodn.	30	29	35	32	34
	Yield	1038	1041	1043	1045	1047
	Area	109	113	115	118	115
Gambia	Prodn.	104	106	108	110	110
	Yield	946	941	937	932	957
	Area	336	336	338	396	403
Ghana	Prodn.	417	426	434	521	536
	Yield	1240	1266	1283	1317	1328
	Area	1	1	1	--	--
Greece	Prodn.	3	4	5	--	--
	Yield	3677	2986	3090	--	--
	Area	3	2	2	2	2
Guatemala	Prodn.	11	10	10	12	12
	Yield	4224	4916	5098	5129	5409
	Area	612	670	732	786	912
Guinea	Prodn.	490	535	696	770	958
	Yield	800	799	950	980	1050
	Area	37	39	41	42	43
Guinea-Bissau	Prodn.	43	45	47	48	50
	Yield	1161	1151	1151	1151	1151
	Area	33	31	27	20	20

	Prodn.	29	27	24	17	18
	Yield	879	880	882	884	886
India	Area	4560	5310	5338	4888	4731
	Prodn.	6733	7462	7462	9253	6727
	Yield	1477	1405	1398	1893	1422
Indonesia	Area	454	436	374	354	267
	Prodn.	592	498	406	375	276
	Yield	1303	1142	1085	1060	1034
Iran	Area	3	3	3	3	3
	Prodn.	11	15	16	16	16
	Yield	4572	5145	5051	5175	5300
Iraq	Area	2	2	1	1	1
	Prodn.	5	5	5	5	5
	Yield	3203	3311	3367	3421	3476
Israel	Area	3	3	3	3	3
	Prodn.	15	16	18	14	14
	Yield	5536	5161	5988	5221	5312
Jamaica	Area	2	2	2	2	2
	Prodn.	2	3	3	2	2
	Yield	1125	1245	1220	1053	1160
Japan	Area	7	7	6	6	6
	Prodn.	12	16	15	16	12
	Yield	1836	2366	2399	2449	1959
Kenya	Area	11	6	11	18	16
	Prodn.	29	11	19	21	15
	Yield	2576	1931	1759	1156	969
Lao People's Democratic Republic	Area	21	27	19	20	20
	Prodn.	62	63	49	49	53
	Yield	2970	2369	2600	2445	2647
Lebanon	Area	2	2	1	1	1
	Prodn.	8	7	7	7	6
	Yield	4402	4586	4736	4892	5046
Liberia	Area	8	8	8	8	8
	Prodn.	6	6	6	6	6
	Yield	765	780	800	819	828
Libya	Area	10	9	9	9	9
	Prodn.	17	15	14	14	13
	Yield	1722	1680	1587	1539	1494
Madagascar	Area	62	82	81	82	82
	Prodn.	58	58	58	58	59
	Yield	938	713	713	714	714
Malawi	Area	370	370	390	405	400
	Prodn.	275	275	386	345	350

	Yield	743	744	992	851	875
Mali	Area	436	432	387	492	452
	Prodn.	521	374	301	491	369
	Yield	1197	866	778	1000	815
Mauritania	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	801	804	808	806	800
Mexico	Area	67	56	59	52	48
	Prodn.	107	96	99	91	81
	Yield	1604	1706	1698	1751	1713
Morocco	Area	14	15	14	13	15
	Prodn.	34	36	36	32	40
	Yield	2434	2373	2542	2502	2595
Mozambique	Area	382	421	427	400	400
	Prodn.	93	121	125	90	80
	Yield	243	287	293	225	200
Myanmar	Area	950	989	1034	1057	1109
	Prodn.	1518	1572	1583	1562	1616
	Yield	1598	1590	1531	1478	1457
Namibia	Area	1	1	1	1	1
	Prodn.	0	0	0	0	0
	Yield	372	387	385	384	382
Nicaragua	Area	44	42	46	46	48
	Prodn.	172	186	203	195	224
	Yield	3879	4390	4390	4215	4671
Niger	Area	718	771	922	920	900
	Prodn.	427	454	462	594	544
	Yield	595	588	501	646	605
Nigeria	Area	2802	3459	3597	3770	3875
	Prodn.	3467	4361	4521	4600	4450
	Yield	1238	1261	1257	1220	1148
Pakistan	Area	92	90	99	99	103
	Prodn.	92	71	86	97	95
	Yield	998	795	869	987	919
Papua New Guinea	Area	1	1	1	1	2
	Prodn.	1	1	2	2	2
	Yield	1033	1027	1030	1033	1035
Paraguay	Area	26	26	26	26	25
	Prodn.	26	27	27	27	21
	Yield	1030	1030	1030	1043	850
Peru	Area	4	4	4	4	4
	Prodn.	6	7	6	6	5
	Yield	1718	1706	1438	1527	1507
Philippines	Area	25	24	24	24	24

	Prodn.	29	28	29	29	29
	Yield	1188	1187	1236	1231	1225
	Area	5	6	5	4	4
Republic of Korea	Prodn.	12	16	15	11	11
	Yield	2539	2758	2873	2672	2792
	Area	27	26	46	45	44
Rwanda	Prodn.	11	11	21	21	20
	Yield	417	432	455	455	445
	Area	0	0	0	0	0
Saudi Arabia	Prodn.	2	2	2	2	2
	Yield	4058	4038	4038	4038	4046
Senegal	Area	1135	880	1254	1134	1111
	Prodn.	1050	719	1405	1501	1421
	Yield	925	817	1121	1323	1279
	Area	70	39	40	41	44
Sierra Leone	Prodn.	62	20	20	21	106
	Yield	881	500	502	505	2437
	Area	8	8	8	8	8
Somalia	Prodn.	8	8	8	8	9
	Yield	1077	1061	1063	1065	1067
	Area	58	23	56	56	20
South Africa	Prodn.	62	18	92	57	19
	Yield	1074	782	1644	1012	968
	Area	139	123	114	116	116
South Sudan	Prodn.	81	71	66	69	70
	Yield	581	577	584	593	602
	Area	1	0	0	0	0
Spain	Prodn.	2	1	1	0	0
	Yield	2852	2097	2899	0	0
	Area	16	20	13	16	15
Sri Lanka	Prodn.	25	24	22	28	27
	Yield	1569	1212	1778	1752	1853
	Area	1465	2315	2215	3065	3130
Sudan	Prodn.	1042	1826	1648	2884	2828
	Yield	711	789	744	941	903
	Area	6	6	6	6	6
Syrian Arab Republic	Prodn.	16	16	16	17	15
	Yield	2717	2716	2673	2953	2703
	Area	3	3	4	4	3
Tajikistan	Prodn.	8	9	13	15	14
	Yield	2843	3000	3213	3903	4276
	Area	22	30	30	30	30
Thailand	Prodn.	36	36	34	34	31

	Yield	1671	1208	1139	1128	1037
	Area	3	3	3	3	4
Timor-Leste	Prod.	4	4	4	4	4
	Yield	1304	1260	1241	1222	1203
	Area	61	58	59	59	60
Togo	Prod.	41	41	43	44	45
	Yield	666	700	737	740	744
	Area	2	2	2	1	1
Tonga	Prod.	1	1	1	1	1
	Yield	598	601	604	606	609
	Area	38	42	42	44	42
Turkey	Prod.	148	164	165	174	169
	Yield	3906	3887	3941	3925	4011
	Area	428	423	424	286	320
Uganda	Prod.	296	275	297	193	160
	Yield	691	650	700	676	500
	Area	1625	950	960	980	990
United Republic of Tanzania	Prod.	1836	640	650	670	680
	Yield	1130	674	677	684	687
	Area	634	622	719	556	563
United States of America	Prod.	2817	2532	3228	2493	2493
	Yield	4442	4073	4492	4485	4426
	Area	3	3	4	4	4
Uruguay	Prod.	2	2	2	2	2
	Yield	533	540	539	539	538
	Area	2	2	1	1	1
Uzbekistan	Prod.	7	9	26	19	28
	Yield	4235	5317	23389	18685	21874
	Area	2	2	2	2	2
Vanuatu	Prod.	3	3	3	3	3
	Yield	1151	1133	1131	1130	1128
	Area	1	2	1	1	1
Venezuela	Prod.	2	7	3	2	2
	Yield	2675	3501	3585	2000	2604
	Area	200	185	195	186	177
Viet Nam	Prod.	454	427	460	457	439
	Yield	2266	2312	2354	2457	2479
	Area	2	2	2	2	2
Yemen	Prod.	2	2	2	1	2
	Yield	719	719	719	710	724
	Area	224	231	263	259	208
Zambia	Prod.	147	154	169	182	131
	Yield	657	665	642	701	628

Zimbabwe	Area	152	186	199	205	192
	Prodn.	52	47	98	103	90
	Yield	342	254	494	502	469
Africa	Area	14189	15319	15964	16883	17146
	Prodn.	13874	14229	15045	16806	16637
	Yield	978	929	942	996	970
Americas	Area	1438	1341	1430	1360	1327
	Prodn.	4742	4525	5251	4400	4850
	Yield	3298	3374	3672	3235	3656
Asia	Area	10870	11714	11891	11450	11114
	Prodn.	25898	26978	27678	29663	27250
	Yield	2383	2303	2328	2591	2452
Europe	Area	2	2	2	0	0
	Prodn.	5	6	6	0	0
	Yield	3160	2608	2776	0	0
Oceania	Area	11	11	11	10	10
	Prodn.	21	20	22	20	20
	Yield	1962	1913	1952	2014	1955
World	Area	26509	28387	29298	29703	29597
	Prodn.	44541	45758	48001	50890	48757
	Yield	1680	1612	1638	1713	1647

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

2.3 All India Area, Production and Yield of Groundnut

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

2015-16	4596	6733	1465	18	29
2016-17	5338	7462	1398	20	NA
2017-18	4888	9253	1893	20	NA
2018-19	4731	6727	1422		NA
2019-20	4825	9952	2063		

Source: Directorate of Economics & Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI- <http://eands.dacnet.nic.in>

(#) Provisional; NA: Not Available

2.4 State-wise Area, Production and Yield of Groundnut in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Andhra Pradesh	Kharif	Area	682	933	648	687	568
		Prodn.	598	391	837	333	622
		Yield	877	419	1291	484	1095

		Area	93	80	87	61	93
	Rabi	Prodn.	203	212	212	129	227
		Yield	2183	2650	2435	2122	2439
	Total	Area	775	1013	735	748	661
		Prodn.	801	603	1048	462	849
		Yield	1034	595	1426	618	1284
Arunachal Pradesh	Kharif	Area	-	1	1	1	1
		Prodn.	-	1	1	1	1
		Yield	-	977	980	981	981
Bihar	Kharif	Area	0.5	1	1	1	1
		Prodn.	1	1	1	1	1
		Yield	1018	1015	1019	1020	1020
Chhattisgarh	Kharif	Area	27	25	20	30	27
		Prodn.	34	46	33	40	42
		Yield	1231	1841	1645	1338	1524
Goa	Kharif	Area	-	0.3	0.3	0.2	-
		Prodn.	-	1	1	1	-
		Yield	-	2557	2325	2370	-
	Rabi	Area	-	1	1	0	0.2
		Prodn.	-	3	3	1	0.4
		Yield	-	2302	2243	2320	2500
	Total	Area	-	2	2	0	0.2
		Prodn.	-	4	3	1	0.4
		Yield	-	2352	2258	2345	2503
Gujarat	Kharif	Area	1356	1696	1627	1566	1629
		Prodn.	2243	3044	3841	2143	4503
		Yield	1654	1795	2361	1368	2764
	Rabi	Area	58	63	52	28	59
		Prodn.	96	113	96	60	142
		Yield	1655	1794	1842	2156	4646
	Total	Area	1414	1759	1679	1594	1689
		Prodn.	2339	3157	3937	2203	2393
		Yield	1654	1795	2345	1382	2751
Haryana	Kharif	Area	5	5	3	4	3
		Prodn.	5	5	4	3	3
		Yield	1000	1000	1202	900	1201
Himachal Pradesh	Kharif	Area	-	0.1	0.0	0.0	0
		Prodn.	-	0.1	0.0	0.0	0.1
		Yield	-	1000	1000	1030	1160
Jammu & Kashmir	Kharif	Area	-	-	-	--	--
		Prodn.	-	-	-	--	--
		Yield	-	-	-	--	--
Jharkhand	Kharif	Area	25	27	32	30	26

		Prodn.	21	28	36	31	29
		Yield	830	1049	1111	1032	1103
Karnataka	Kharif	Area	406	497	390	378	393
		Prodn.	274	248	346	272	370
		Yield	675	499	886	720	941
	Rabi	Area	164	169	174	137	111
		Prodn.	121	171	207	119	133
		Yield	738	1012	1190	868	1198
	Total	Area	570	666	564	515	504
		Prodn.	395	419	553	391	503
		Yield	693	629	980	759	998
	Kerala	Kharif	Area	0.5	0.4	0.3	0.1	0.1
Prodn.			1	1	0.4	0.1	0.1
Yield			1379	1411	1394	1261	1258
Rabi		Area	-	-	-	0.1	0.1
		Prodn.	-	-	-	0.1	0.1
		Yield	-	-	-	1227	1255
Total		Area	0.5	0.4	0.3	0.2	0.1
		Prodn.	1	1	0.4	0.2	0.1
		Yield	1379	1411	1394	1247	1256
Madhya Pradesh		Kharif	Area	236	255	218	216	217
	Prodn.		332	378	338	399	344
	Yield		1405	1482	1550	1849	1587
	Rabi	Area	-	-	6	7	4
		Prodn.	-	-	11	13	6
		Yield	-	-	1833	1809	1570
	Total	Area	236	255	224	223	221
		Prodn.	332	378	349	412	351
		Yield	1405	1482	1558	1848	1587
	Maharashtra	Kharif	Area	224	235	240	217	221
Prodn.			217	287	276	203	192
Yield			969	1221	1148	169	156
Rabi		Area	85	120	51	27	70
		Prodn.	117	133	69	35	118
		Yield	1376	1113	1349	1308	1687
Total		Area	309	355	291	244	291
		Prodn.	334	420	344	239	309
		Yield	1081	1184	1183	977	1063
Manipur		Kharif	Area	-	3	3	3	3
	Prodn.		-	3	3	3	2
	Yield		-	888	941	931	868
Nagaland	Kharif	Area	-	1	1	1	2
		Prodn.	-	1	1	1	2

		Yield	-	1032	1041	1040	1048
		Area	18	26	16	13	11
	Kharif	Prodn.	15	26	15	14	14
		Yield	837	998	950	1074	1241
		Area	33	19	17	15	18
	Rabi	Prodn.	41	30	22	22	30
		Yield	1242	1533	1308	1453	1610
		Area	51	45	33	28	29
	Total	Prodn.	56	55	38	36	43
		Yield	1097	1229	1134	1277	1471
		Area	-	0.2	0.3	0.3	0.2
	Kharif	Prodn.	-	1	1	1	1
		Yield	-	3000	3000	3197	3017
		Area	-	0.04	0.03	0.01	0
	Rabi	Prodn.	-	0.1	0.1	0.04	0.1
		Yield	-	2800	3000	3231	3000
		Area	-	0.3	0.3	0.3	0.3
	Total	Prodn.	-	1	1	1	0.1
		Yield	-	2968	3000	3199	250
		Area	1	1	1	1	2
	Kharif	Prodn.	2	2	2	3	4
		Yield	1900	1917	1950	1980	1980
		Area	517	556	641	669	735
	Kharif	Prodn.	1049	115	1259	1375	1612
		Yield	2029	2051	1966	2056	2195
		Area	-	-	-	4	5
	Rabi	Prodn.	-	-	-	7	7
		Yield	-	-	-	1583	1562
		Area	517	556	641	673	739
	Total	Prodn.	1049	115	1259	1382	1619
		Yield	2029	2051	1966	2053	2191
		Area	223	195	189	197	209
	Kharif	Prodn.	485	305	464	426	519
		Yield	2175	1567	2460	2169	2479
		Area	124	88	139	139	138
	Rabi	Prodn.	407	284	544	485	515
		Yield	3293	3232	3917	3491	3742
		Area	347	282	327	335	347
	Total	Prodn.	892	589	1008	911	1033
		Yield	2574	2084	3078	2718	2980
		Area	14	26	21	13	12
	Kharif	Prodn.	21	52	46	33	33
		Yield	1500	2000	2188	2504	2743

	Rabi	Area	114	140	146	113	99
		Prodn.	185	290	372	281	233
		Yield	1623	2071	2236	2489	2348
	Total	Area	128	166	167	126	111
		Prodn.	206	342	372	314	265
		Yield	1609	2060	2230	2491	2391
Tripura	Kharif	Area	-	1	1	1	1
		Prodn.	-	1	1	2	2
		Yield	-	1310	1198	1328	1334
	Rabi	Area	-	1	1	1	1
		Prodn.	-	2	1	1	2
		Yield	-	1584	1231	1438	1509
	Total	Area	-	2	2	2	2
		Prodn.	-	3	3	3	3
		Yield	-	1459	1215	1376	1420
Uttar Pradesh	Kharif	Area	97	94	88	101	94
		Prodn.	65	85	89	100	89
		Yield	670	904	1013	994	942
Uttarakhand	Kharif	Area	1	1	1	1	1
		Prodn.	2	1	1	1	1
		Yield	1450	1000	1377	1038	1089
West Bengal	Kharif	Area	2	2	3	4	4
		Prodn.	2	2	2	4	5
		Yield	902	964	960	984	1120
	Rabi	Area	82	75	68	64	67
		Prodn.	188	173	163	184	152
		Yield	2290	2318	2394	2899	2264
Total	Area	84	77	71	67	71	
Others	Total	Prodn.	190	175	165	188	156
		Yield	2255	2279	2343	2788	2198
		Area	3	-	-	--	--
	Kharif	Prodn.	4	-	-	--	--
		Yield	1374	-	-	--	--
		Area	6	-	-	--	--
	Rabi	Prodn.	7	-	-	--	--
		Yield	1274	-	-	--	--
		Area	8	-	-	--	--
	Total	Prodn.	11	-	-	--	--
Yield	1305	-	-	--	--		
India	Kharif	Area	3838	4578	4142	4132	4161
		Prodn.	5368	6048	7595	5387	8389
		Yield	1399	1321	1834	1304	2016
	Rabi	Area	759	760	746	599	665

	Prodn.	1366	1414	1657	1340	1563
	Yield	1801	1861	2222	2238	2352
	Area	4596	5338	4888	4731	4825
Total	Prodn.	6733	7462	9253	6727	9952
	Yield	1465	1398	1893	1422	2063

Source: Directorate of Economics & Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

2.5 District-wise Area, Production and Yield of Groundnut in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Andaman & Nicobar Islands						
	Area	0.001	-	-	-	0.003
North & Middle Andaman	Prodn.	0.001	-	-	-	0.002
	Yield	1000	-	-	-	567
	Area	0.001	-	-	-	-
South Andamans	Prodn.	0.001	-	-	-	-
	Yield	1000	-	-	-	-
Andhra Pradesh						
	Area	468	624	423	491	409
Ananthapuramu	Prodn.	352	165	455	177	344
	Yield	752	264	1075	360	841
	Area	127	148	130	110	108
Chittoor	Prodn.	164	120	263	122	204
	Yield	1296	814	2034	1114	1884
	Area	0.4	0.3	0.2	0.2	0.2
East Godavari	Prodn.	1	1	1	1	0.5
	Yield	2500	3000	2500	2500	2954
	Area	3	4	4	3	3
Guntur	Prodn.	10	12	17	10	12
	Yield	3345	3243	4231	3714	3638
	Area	51	65	44	20	22
Kadapa	Prodn.	84	66	72	15	53
	Yield	1649	1002	1615	777	2420
	Area	2	2	2	2	1
Krishna	Prodn.	6	6	6	7	6
	Yield	3316	3813	3000	4063	4145
	Area	87	131	100	98	95
Kurnool	Prodn.	94	135	152	62	167
	Yield	1086	1033	1519	629	1755
	Area	6	6	4	2	3
Prakasam	Prodn.	19	18	10	8	9
	Yield	2984	2887	2419	3800	3111

Groundnut

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
SPSR Nellore	Area	11	16	12	10	9
	Prod.	35	44	43	38	36
	Yield	3321	2846	3512	4032	4072
Srikakulam	Area	8	7	7	6	5
	Prod.	11	13	13	9	7
	Yield	1337	1853	1806	1406	1503
Visakhapatnam	Area	2	2	2	2	2
	Prod.	3	3	3	3	3
	Yield	1381	1417	1435	1571	1514
Vizianagaram	Area	6	5	3	3	2
	Prod.	9	6	5	4	2
	Yield	1492	1391	1484	1483	1644
West Godavari	Area	4	4	3	2	2
	Prod.	12	14	9	6	5
	Yield	3189	3366	3370	2810	2416
Arunachal Pradesh						
Anjaw	Area	-	0.03	0.03	0.03	
	Prod.	-	0.04	0.04	0.04	
	Yield	-	1167	1156	1156	
Changlang	Area	-	0.3	0.1	0.1	
	Prod.	-	0.1	0.3	0.3	
	Yield	-	455	2800	2800	
Dibang Valley	Area	-	0.04	0.04	0.04	
	Prod.	-	0.03	0.03	0.03	
	Yield	-	865	872	872	
East Siang	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.1	0.1	
	Yield	-	1549	962	964	
Kra Daadi	Area	-	0.01	0.01	0.01	
	Prod.	-	0.01	0.01	0.01	
	Yield	-	1143	1182	1182	
Kurung Kumey	Area	-	0.01	0.01	0.01	
	Prod.	-	0.01	0.01	0.01	
	Yield	-	1167	1222	1222	
Lohit	Area	-	0.01	0.02	0.02	
	Prod.	-	0.02	0.02	0.02	
	Yield	-	1154	1133	1133	
Lower Dibang Valley	Area	-	0.1	0.2	0.2	
	Prod.	-	0.1	0.1	0.1	
	Yield	-	1800	531	531	
Lower Subansiri	Area	-	0.02	0.01	0.01	
	Prod.	-	0.02	0.02	0.02	
	Yield	-	1000	1417	1417	

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Namsai	Area	-	0.1	0.2	0.2	
	Prod.	-	0.1	0.04	0.04	
	Yield	-	2132	204	204	
Papum Pare	Area	-	0.2	0.2	0.2	
	Prod.	-	0.2	0.1	0.1	
	Yield	-	867	690	690	
Saing	Area	-	0.02	0.02	0.02	
	Prod.	-	0.01	0.1	0.1	
	Yield	-	700	3136	3136	
Uppar Subansiri	Area	-	0.05	0.05	0.05	
	Prod.	-	0.1	0.1	0.1	
	Yield	-	1085	1082	1082	
West Siang	Area	-	0.01	0.01	0.01	
	Prod.	-	0.01	0.02	0.02	
	Yield	-	1400	1333	1333	
Bihar						
Arwal	Area	-	-	-	0.004	0.015
	Prod.	-	-	-	0.004	0.015
	Yield	-	-	-	1000	1000
Aurangabad	Area	0.001	-	-	-	-
	Prod.	0.001	-	-	-	-
	Yield	1000	-	-	-	-
Begusarai	Area	0.01	0.01	0.011	0.014	0.014
	Prod.	0.01	0.01	0.011	0.014	0.014
	Yield	1000	1000	1000	1000	1000
Gaya	Area	0.1	0.1	0.1	0.04	-
	Prod.	0.102	0.098	0.101	0.04	-
	Yield	1020	980	1010	1000	-
Madhepura	Area	0.007	-	-	-	-
	Prod.	0.007	-	-	-	-
	Yield	1000	-	-	-	-
Nalanda	Area	0.049	0.054	-	-	-
	Prod.	0.049	0.055	-	-	-
	Yield	1000	1019	-	-	-
Nawada	Area	0.185	0.683	0.357	0.692	0.73
	Prod.	0.189	0.697	0.365	0.707	0.745
	Yield	1022	1020	1022	1022	1021
Pashchim Champaran	Area	0.131	0.118	0.101	0.101	0.081
	Prod.	0.134	0.12	0.103	0.103	1025
	Yield	1023	1017	1020	1020	
Purnia	Area	-	-	-	0.005	0.001
	Prod.	-	-	-	0.005	0.001
	Yield	-	-	-	1000	1000

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Rohtas	Area	0.009	-	-	-	-
	Prodn.	0.009	-	-	-	-
	Yield	1000	-	-	-	-
Supaul	Area	-	0.014	-	-	-
	Prodn.	-	0.014	-	-	-
	Yield	-	1000	-	-	-
Chhattisgarh						
Balod	Area	-	-	-	0.003	
	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
Baloda Bazar	Area	0.5	0.2	0.5	0.2	
	Prodn.	0.6	0.4	0.6	0.2	
	Yield	1265	1947	1094	976	
Balrampur	Area	0.9	1.4	1.42	1.482	
	Prodn.	1.1	2.3	0.26	1.663	
	Yield	1222	1643	183	1122	
Bastar	Area	-	-	-	0.01	
	Prodn.	-	-	-	0.02	
	Yield	-	-	-	1615	
Bemetara	Area	0.2	0.1	0.1	0.3	
	Prodn.	0.2	0.2	0.1	0.5	
	Yield	1167	1692	1250	1338	
Bijapur	Area	0.01	0.02	0.01	0.01	
	Prodn.	0.01	0.02	0.01	0.02	
	Yield	1000	1000	1000	1231	
Bilaspur	Area	1	1	0.9	0.7	
	Prodn.	1.3	1.8	1.4	1.2	
	Yield	1300	1800	1452	1574	
Dantewada	Area	-	-	-	0.005	
	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
Dhamtari	Area	0.01	0.01	0.01	0.004	
	Prodn.	0.01	0.01	0.01	0.004	
	Yield	1000	1000	1000	1000	
Gariyaband	Area	0.5	0.6	0.4	0.4	
	Prodn.	0.6	0.8	0.4	1	
	Yield	1200	1333	976	1335	
Janjgir Champa	Area	0.8	0.7	1	1	
	Prodn.	1.2	1.4	1	1	
	Yield	1500	2000	1717	1470	
Jashpur	Area	4	5	4	5	
	Prodn.	6	9	7	6	
	Yield	1488	2067	1552	1394	

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Kabirdham	Area	0.33	0.3	1	1	
	Prodn.	0.69	0.66	1	1	
	Yield	2091	2200	1827	1167	
Kondagaon	Area	0.05	0.05	0.04	0.04	
	Prodn.	0.07	0.1	0.1	0.1	
	Yield	1400	2000	1500	1429	
Korba	Area	0.28	0.31	0.3	0.2	
	Prodn.	0.23	0.4	0.4	0.2	
	Yield	821	1290	1167	995	
Korea	Area	0.19	0.23	0.2	0.2	
	Prodn.	0.12	0.29	0.2	0.2	
	Yield	632	1261	1091	908	
Mahasamund	Area	6	3.9	4	3	
	Prodn.	7.3	6.8	4	4	
	Yield	1217	1744	1104	1334	
Mungeli	Area	0.7	0.7	0.5	0.4	
	Prodn.	1	1.4	1	1	
	Yield	1429	2000	1500	1304	
Raigarh	Area	6.9	6.6	6	5	
	Prodn.	8.7	11.8	8	6	
	Yield	1261	1788	1331	1236	
Raipur	Area	0.05	0.06	0.1	0	
	Prodn.	0.07	0.11	0.1	0.1	
	Yield	1400	1833	1333	1512	
Rajnandgaon	Area	-	-	-	0.1	
	Prodn.	-	-	-	0.1	
	Yield	-	-	-	1803	
Surajpur	Area	3.7	3.5	3	3	
	Prodn.	4.4	4.9	4	4	
	Yield	1189	1400	1278	1186	
Surguja	Area	2.8	2.6	3	3	
	Prodn.	3.6	4.2	3	3	
	Yield	1286	1615	1231	1274	
Dadra & Nagar Haveli						
Dadra and Nagar Haveli	Area	0.02	0.003	0.02	0.003	-
	Prodn.	0.02	0.01	0.02	0.01	-
	Yield	938	1667	941	1667	-
Goa						
North Goa	Area	2	2	2	0.4	0.2
	Prodn.	4	4	3	1	0.4
	Yield	2125	2352	2258	2347	2535
South Goa	Area					
	Prodn.					

State/District	2015-16	2016-17	2017-18	2018-19	2019-2020	
	Yield					
Gujarat						
	Area	-	-	-	0.04	0.02
Ahmadabad	Prodn.	-	-	-	0.05	0.06
	Yield	-	-	-	1371	2764.19
	Area	102	141	127	107	113
Amreli	Prodn.	220	270	197	76	349
	Yield	2166	1916	1557	712	3094
	Area	-	-	-	0.04	-
Anand	Prodn.	-	-	-	0.09	-
	Yield	-	-	-	2150	-
	Area	26	46	44	37	55
Aravali	Prodn.	54	73	114	102	114
	Yield	2038	1586	2574	2736	2069
	Area	61	150	131	141	114
Banas Kanatha	Prodn.	113	412	288	381	331
	Yield	1860	2750	2197	2702	2907
	Area	0.4	0.4	0.4	0.3	0.2
Bharuch	Prodn.	1	1	1	0.5	0.4
	Yield	1750	2000	2250	1648	2764
	Area	82	111	95	96	96
Bhavnagar	Prodn.	145	366	225	171	271
	Yield	1772	3293	2380	1782	2835
	Area	4	4	1	1	2
Botad	Prodn.	4	4	3	2	8
	Yield	1056	1054	2357	1368	5006
	Area	2	1	2	1	0.3
Chhotaudepur	Prodn.	2	1	4	2	1
	Yield	1533	2000	2333	1497	2764
	Area	2	3	3	3	5
Dang	Prodn.	3	4	4	5	3
	Yield	1368	1440	1161	1650	629
	Area	160	176	185	176	197
Devbhumi Dwaraka	Prodn.	37	116	472	69	676
	Yield	231	656	2558	393	3427
	Area	1	1	2	1	1
Dohad	Prodn.	2	2	4	2	3
	Yield	1538	1667	2053	1750	2764
	Area	3	6	5	5	6
Gandhinagar	Prodn.	13	20	16	16	16
	Yield	4483	3311	3000	2999	2535
	Area	92	115	115	97	103
Gir Somnath	Prodn.	245	386	353	255	299

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Jamnagar	Yield	2660	3343	3071	2620	2891
	Area	130	134	134	130	148
	Prodn.	205	158	495	154	473
Junagadh	Yield	1581	1179	3691	1180	3198
	Area	225	254	258	231	235
	Prodn.	170	358	353	288	413
Kachchh	Yield	754	1411	1364	1246	1761
	Area	31	53	55	28	3
	Prodn.	75	117	129	36	5
Kheda	Yield	2406	2193	2352	1300	1619
	Area	1	3	3	2	28
	Prodn.	2	4	7	3	55
Mahesana	Yield	1545	1630	2321	1468	2010
	Area	12	17	18	15	14
	Prodn.	28	39	37	44	39
Mahisagar	Yield	2279	2341	2108	2895	2791
	Area	1	2	2	1	0
	Prodn.	1	3	3	2	1
Morbi	Yield	1250	1650	1600	1688	2764
	Area	87	100	81	135	119
	Prodn.	111	105	184	103	221
Narmada	Yield	1269	1052	2264	767	1867
	Area	0.4	0.2	0.2	0.3	0.1
	Prodn.	1	0.2	0.4	0.5	0.3
Navsari	Yield	1250	1000	2000	1823	2764
	Area	-	-	-	0.1	0.01
	Prodn.	-	-	-	0.1	0.03
Panch Manals	Yield	-	-	-	2030	2764
	Area	1	2	1	0.5	0.1
	Prodn.	1	3	1	1	0.2
Patan	Yield	1600	1667	1857	2091	2764
	Area	-	1	1	0	1
	Prodn.	-	1	1	1	1
Porbandar	Yield	-	1625	2200	1411	2764
	Area	69	74	77	76	83
	Prodn.	9	199	240	107	219
Rajkot	Yield	134	2693	3098	1403	2636
	Area	273	274	264	239	234
	Prodn.	465	69	746	252	894
Sabar Kantha	Yield	1704	252	2826	1057	3826
	Area	38	54	50	45	57
	Prodn.	95	72	130	84	58
	Yield	2524	1336	2592	1868	1027

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Surat	Area	1	1	1	1	1
	Prodn.	2	3	3	1	2
	Yield	1700	2000	2273	1469	2764
Surendranagar	Area	9	30	19	18	16
	Prodn.	24	78	47	36	48
	Yield	2670	2613	2513	1980	3086
Tapi	Area	5	5	4	5	1
	Prodn.	9	9	8	9	2
	Yield	1780	1824	1814	1874	2394
Vadodara	Area	-	-	-	0.03	0.03
	Prodn.	-	-	-	0.1	0.1
	Yield	-	-	-	2000	2764
Valsad	Area	-	0.2	0.2	0.2	0.02
	Prodn.	-	0.4	1	0.3	0.05
	Yield	-	2000	3000	1369	2764
Haryana						
Bhiwani	Area	-	0.1	-		
	Prodn.	-	0.1	-		
	Yield	-	1000	-		
Fatehabad	Area	1	1	1		
	Prodn.	2	2	1		
	Yield	1231	1455	1083		
Hisar	Area	0.4	0.3	0.1		
	Prodn.	1	0.4	0.2		
	Yield	1250	1333	2000		
Jhajjar	Area	0.1	0.1	-		
	Prodn.	0.1	0.1	-		
	Yield	1000	1000	-		
Rewari	Area	-	0.1	-		
	Prodn.	-	0.1	-		
	Yield	-	1000	-		
Sirsa	Area	3	3	2		
	Prodn.	3	3	2		
	Yield	1240	1133	1167		
Himachal Pradesh						
Bilaspur		-	-	-	0.001	
		-	-	-	0.001	
		-	-	-	1000	
Kullu	Area	0.02	0.02	0.02	0.02	
	Prodn.	0.02	0.02	0.02	0.03	
	Yield	1133	909	1267	1190	
Mandi	Area	0.001	0.001	0.002	-	
	Prodn.	0.001	0.001	0.002	-	

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Shimla	Yield	1000	1000	1000	-	
	Area	0.01	0.01	0.01	0.01	
	Prod.	0.004	0.004	0.005	0.004	
	Yield	571	571	714	667	
	Area	0.01	0.02	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
Sirmaur	Yield	917	778	917	929	
	Jharkhand					
	Area	0.3	0.4	0.4	1	0.3
Bokaro	Prod.	0.1	0.2	0.3	1	0.4
	Yield	482	483	750	641	1301
Chatra	Area	0.4	0.4	0.4	0.5	0.4
	Prod.	0.4	0.4	0.3	0.5	0.4
	Yield	951	971	750	985	989
Deoghar	Area	1	0.2	0.1	0.3	0.2
	Prod.	0.4	0.2	0.1	0.2	0.2
	Yield	751	750	752	751	749
Dhanbad	Area	0	0.2	0.4	0.4	0.3
	Prod.	0.1	0.2	0.4	0.4	0.3
	Yield	1233	1240	1000	1199	1200
Dumka	Area	1	1	1	2	1
	Prod.	0.4	1	1	1	1
	Yield	751	840	818	825	1050
East Singhbhum	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	993	720	900	751	1000
Garhwa	Area	2	2	4	3	2
	Prod.	1	1	3	2	1
	Yield	610	685	732	835	835
Giridih	Area	0.1	0.2	0.1	0.1	0.1
	Prod.	0.05	0.1	0.1	0.1	0.1
	Yield	627	682	1014	1010	1015
Godda	Area	1	1	1	1	0.3
	Prod.	1	1	1	1	0.3
	Yield	1000	1000	1000	990	1052
Gumla	Area	5	5	8	6	7
	Prod.	6	7	14	9	10
	Yield	1335	1492	1853	1664	1486
Hazaribagh	Area	1	3	1	1	1
	Prod.	1	4	1	1	1
	Yield	650	1250	1273	1250	1240
Jamtara	Area	-	0.1	1	1	0.01
	Prod.	-	0.1	0.3	0.4	0.01

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Khunti	Yield	-	1097	600	800	769
	Area	1	1	1	2	1
	Prod.	1	1	1	2	0.5
Koderma	Yield	809	910	1000	920	650
	Area	0.4	1	1	1	1
	Prod.	0.3	0.4	1	1	0.5
Latehar	Yield	724	651	800	1000	801
	Area	2	2	2	2	2
	Prod.	1	2	1	1	1
Lohardaga	Yield	859	863	875	862	863
	Area	2	2	2	2	2
	Prod.	0.03	3	3	2	2
Pakur	Yield	15	1500	1208	1200	1200
	Area	0.03	0.1	0.1	0.21	0.16
	Prod.	0.02	0.07	0.07	0.07	0.11
Palamu	Yield	778	705	705	348	706
	Area	1	0.3	1	1	1
	Prod.	1	0.3	0.4	0.3	1
Ramgarh	Yield	820	1024	800	610	785
	Area	1	1	1	1	1
	Prod.	1	1	0	1	1
Ranchi	Yield	660	1240	0	1240	1239
	Area	1	1	2	1	2
	Prod.	1	1	1	1	2
Dsjrnsmk	Yield	1025	800	778	830	950
	Area	-	-	-	0.02	-
	Prod.	-	-	-	0.02	-
Saraikela Kharsawan	Yield	-	-	-	875	-
	Area	0.1	0.4	0.4	0.5	0.2
	Prod.	0.1	0.3	0.3	0.4	0.2
Simdega	Yield	800	699	750	890	852
	Area	5	5	0.4	5	5
	Prod.	4	4	0.3	4	5
West Singhbhum	Yield	800	800	750	800	950
	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	0.1	0.1	0.1	0.1	0.1
Bangalore Rural	Yield	836	840	853	893	882
	Prod.	-	-	-	0.1	0.2
Karnataka	Area	26	26	28	31	2
Bagalkot	Prod.	24	35	42	30	2
	Yield	905	1327	1488	986	1039
Bangalore Rural	Area	-	-	-	0.2	0.2
	Prod.	-	-	-	0.1	0.2

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Belgaum	Yield	-	-	-	654	1148
	Area	37	35	33	31	25
	Prod.	21	35	40	32	22
Bellary	Yield	570	980	1224	1043	870
	Area	50	36	60	61	54
	Prod.	47	43	90	67	72
Bangalore Urban	Yield	936	1173	1492	1107	1340
	Area	-	-	-	0.1	0.1
	Prod.	-	-	-	0.1	0.1
Bidar	Yield	-	-	-	690	892
	Area	-	-	-	0.04	0.03
	Prod.	-	-	-	0.03	0.02
Bijapur	Yield	-	-	-	778	531
	Area	25	44	48	14	12
	Prod.	10	30	37	8	6
Chamarajanagar	Yield	387	684	775	591	510
	Area	12	9	6	4	5
	Prod.	10	2	8	5	6
Chikballapur	Yield	779	215	1226	1172	1368
	Area	20	26	17	25	25
	Prod.	17	9	23	12	28
Chikmagalur	Yield	872	336	1299	483	1130
	Area	6	5	4	5	2
	Prod.	4	3	4	5	2
Chitradurga	Yield	644	688	1024	1050	1073
	Area	97	130	92	75	117
	Prod.	63	28	95	31	80
Davangere	Yield	655	215	1033	408	686
	Area	15	14	16	13	10
	Prod.	17	11	25	14	12
Dharwad	Yield	1111	797	1518	1074	1205
	Area	36	35	19	31	35
	Prod.	17	18	15	24	34
Gadag	Yield	481	507	794	766	958
	Area	41	44	36	40	35
	Prod.	22	27	32	16	29
Gulbarga	Yield	522	601	890	389	826
	Area	4	6	8	7	0
	Prod.	2	7	10	6	1
Hassan	Yield	579	1255	1288	816	1136
	Area	1	1	1	0	0
	Prod.	1	1	1	0	0
	Yield	667	833	714	824	278

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Haveri	Area	18	21	23	20	20
	Prodn.	15	16	30	15	12
	Yield	837	746	1284	761	610
Kodagu	Area	-	-	-	0.01	0.001
	Prodn.	-	-	-	0.01	0.001
	Yield	-	-	-	875	1000
Kolar	Area	9	10	7	12	7
	Prodn.	6	5	10	7	7
	Yield	663	455	1507	570	923
Koppal	Area	22	34	34	31	11
	Prodn.	17	18	41	21	7
	Yield	771	536	1190	693	701
Mandya	Area	1	1	1	0.5	0.3
	Prodn.	1	0	1	0.4	0.3
	Yield	786	0	1000	730	1041
Mysore	Area	2	3	3	2	1
	Prodn.	2	1	3	2	1
	Yield	667	360	1038	1060	840
Raichur	Area	36	36	18	35	0.5
	Prodn.	27	44	24	28	1
	Yield	744	1236	1324	795	1142
Ramanagara	Area	3	3	2	1	1
	Prodn.	5	3	2	1	1
	Yield	1455	1080	1200	1089	1323
Shimoga	Area	-	-	-	0.1	0.1
	Prodn.	-	-	-	0.1	0.1
	Yield	-	-	-	728	894
Tumkur	Area	65	93	55	64	49
	Prodn.	45	31	44	37	43
	Yield	687	336	788	576	888
Udupi	Area	2	2	2	2	2
	Prodn.	4	4	4	4	4
	Yield	2222	2353	2278	2019	2352
Uttar Kannad	Area	2	2	2	1	1
	Prodn.	3	4	4	2	3
	Yield	1500	2059	2118	2176	2245
Yadgir	Area	39	53	49	35	3
	Prodn.	17	48	53	28	3
	Yield	433	897	1075	806	1332
Kerala						
Palakkad	Area	0.4	0.4	0.3	0.2	
	Prodn.	1	1	0.4	0.2	
	Yield	1379	1411	1394	1278	

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Madhya Pradesh						
Agar Malwa	Area	1	1	0	1	0.3
	Prod.	1	1	0	0.3	0.2
	Yield	1000	1000	0	578	704
Alirajpur	Area	11	15	10	10	12
	Prod.	11	18	13	18	14
	Yield	1000	1200	1338	1728	1171
Anuppur	Area	1	1	1	0.2	0.2
	Prod.	1	1	0.4	0.1	0.3
	Yield	1000	1000	677	967	1263
Ashoknagar	Area	-	-	1	0	1
	Prod.	-	-	1	1	1
	Yield	-	-	1117	1676	2106
Balaghat	Area	-	-	0.03	-	0
	Prod.	-	-	0.03	-	0
	Yield	-	-	1000	-	1333
Barwani	Area	12	12	8	7	7
	Prod.	13	9	7	11	9
	Yield	1083	750	940	1600	1227
Betul	Area	6	6	7	5	3
	Prod.	5	10	9	6	4
	Yield	833	1667	1341	1211	1057
Bhind	Area	-	-	-	0.04	0.02
	Prod.	-	-	-	0.03	0.04
	Yield	-	-	-	725	1857
Bhopal	Area	-	1	1	0.2	0.1
	Prod.	-	1	1	0.3	0.2
	Yield	-	1000	1058	1514	2182
Burhanpur	Area	-	-	1	0.2	0.2
	Prod.	-	-	1	0.4	0.4
	Yield	-	-	1803	1973	2340
Chhatarpur	Area	10	13	14	15	24
	Prod.	6	23	20	20	30
	Yield	600	1769	1426	1340	1261
Chhindwara	Area	25	27	16	10	8
	Prod.	46	50	25	14	21
	Yield	1840	1852	1510	1472	2634
Damoh	Area	1	2	2	0.05	0.1
	Prod.	1	3	2	0.1	0
	Yield	1000	1500	1448	1311	738
Datia	Area	6	12	7	11	10
	Prod.	6	9	5	14	15
	Yield	1000	750	706	1269	1580

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Dewas	Area	-	-	0.3	0.2	0.2
	Prod.	-	-	0.3	0.3	0.3
	Yield	-	-	1160	1589	1809
Dhar	Area	4	3	4	2	2
	Prod.	4	7	11	4	3
	Yield	1000	2333	2548	2212	1944
Dindori	Area	-	-	-	0.01	0.02
	Prod.	-	-	-	0.02	0.03
	Yield	-	-	-	1385	1400
Guna	Area	1	-	1	0.13	0.03
	Prod.	1	-	1	0.28	0.08
	Yield	1000	-	1200	2185	2333
Gwalior	Area	-	-	0.1	1	1
	Prod.	-	-	0.2	1	1
	Yield	-	-	1500	1595	1465
Harda	Area	-	-	0	0.1	0.01
	Prod.	-	-	0	0.1	0.01
	Yield	-	-	0	973	1000
Hoshangabad	Area	-	-	0.03	0.05	0.01
	Prod.	-	-	0.06	0.1	0.01
	Yield	-	-	2000	1468	1800
Indore	Area	-	-	0	0	0
	Prod.	-	-	0	1	0
	Yield	-	-	0	1441	1098
Jabalpur	Area	-	-	0.1	0.1	0.1
	Prod.	-	-	0.1	0.2	0.1
	Yield	-	-	929	1673	1941
Jhabua	Area	10	7	5	4	4
	Prod.	8	15	9	5	5
	Yield	800	2143	1798	1269	1231
Katni	Area	-	-	0.02	0.02	0.01
	Prod.	-	-	0.01	0.02	0.01
	Yield	-	-	500	1150	1429
Khandwa	Area	3	5	2	2	1
	Prod.	4	6	2	3	1
	Yield	1333	1200	1307	1825	1348
Khargone	Area	7	8	5	3	2
	Prod.	10	12	7	5	2
	Yield	1429	1500	1501	1691	1325
Mandla	Area	-	-	-	0.001	0.001
	Prod.	-	-	-	0.001	0.001
	Yield	-	-	-	1000	1000
Mandsaur	Area	1	-	3	1	1

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Morena	Prod.	1	-	2	2	1
	Yield	1000	-	810	1524	1339
	Area	-	-	0.4	1	0.4
	Prod.	-	-	1	1	0.5
	Yield	-	-	1500	1271	1423
	Area	-	-	0.02	0.04	0.04
Narsinghpur	Prod.	-	-	0.04	0.11	0.09
	Yield	-	-	2000	2700	2389
	Area	4	5	7	11	10
Neemuch	Prod.	5	8	18	13	10
	Yield	1250	1600	2580	1155	976
	Area	-	-	-	0.03	0.04
Panna	Prod.	-	-	-	0.04	0.04
	Yield	-	-	-	1156	973
	Area	-	-	-	0.1	0.1
Raisen	Prod.	-	-	-	0.2	0.1
	Yield	-	-	-	1564	1352
	Area	1	-	2	1	1
Raigarh	Prod.	1	-	2	0.4	1
	Yield	1000	-	940	565	1074
	Area	-	-	0.5	0.2	0.2
Ratlam	Prod.	-	-	1	0.3	0.2
	Yield	-	-	1152	1942	812
	Area	2	1	0	0	0
Sagar	Prod.	1	1	0	1	1
	Yield	500	1000	936	1754	1313
	Area	-	-	-	0.003	0.002
Satna	Prod.	-	-	-	0.004	0.003
	Yield	-	-	-	1333	1500
	Area	1	-	1	0.2	0.4
Sehore	Prod.	1	-	1	0.4	1
	Yield	1000	-	984	1626	1918
	Area	6	6	5	1	1
Seoni	Prod.	5	7	5	1	1
	Yield	833	1167	916	1222	1057
	Area	1	-	0.14	0.02	0.02
Shahdol	Prod.	1	-	0.11	0.02	0.02
	Yield	1000	-	786	1000	1056
	Area	1	-	1	0	0
Shajapur	Prod.	1	-	1	0	0
	Yield	1000	-	1344	1004	1027
	Area	-	-	-	3	1
Sheopur	Prod.	-	-	-	9	3

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Singrauli	Yield	-	-	-	3027	2331
	Area	-	-	-	0.03	0.1
	Prod.	-	-	-	0.04	0.1
Shivpuri	Yield	-	-	-	1281	1440
	Area	95	106	104	107	87
	Prod.	102	161	182	239	162
Tikamgarh	Yield	1074	1519	1742	2222	1874
	Area	21	23	16	18	40
	Prod.	22	35	21	27	56
Ujjain	Yield	1048	1522	1270	1513	1390
	Area	-	-	0.2	0.3	0.1
	Prod.	-	-	0.2	0.4	0.2
Umaria	Yield	-	-	1200	1768	1333
	Area	-	-	0.01	0.01	0.01
	Prod.	-	-	0.01	0.01	0.01
Vidisha	Yield	-	-	1000	1250	1333
	Area	2	0.1	0.1	0.1	0.1
	Prod.	1	0.1	0.2	0.2	0.1
Maharashtra	Yield	500	1857	1181	1181	1308
	Area	6	16	16	11	12
	Prod.	3	22	20	6	8
Ahmednagar	Yield	491	1352	1242	520	617
	Area	4	4	2	2	2
	Prod.	4	6	3	2	6
Akola	Yield	902	1410	1471	1158	2662
	Area	8	5	3	2	2
	Prod.	11	6	4	1	3
Amravati	Yield	1392	1326	1176	755	1295
	Area	5	7	7	9	10
	Prod.	2	6	5	4	10
Aurangabad	Yield	400	897	730	411	963
	Area	18	29	32	4	7
	Prod.	1	11	18	1	5
Beed	Yield	49	389	552	168	693
	Area	-	0.01	0.01	0.01	-
	Prod.	-	0.01	0	0.01	-
Bhandara	Yield	-	500	400	1600	-
	Area	4	5	2	2	7
	Prod.	3	6	3	2	12
Buldhana	Yield	816	1118	1364	956	1726
	Area	0.01	0.1	0.03	0.01	0.1
	Prod.	0.02	0.1	0.03	0.01	0.1
Chandrapur	Area	0.01	0.1	0.03	0.01	0.1
	Prod.	0.02	0.1	0.03	0.01	0.1

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Dhule	Yield	1600	600	1172	1000	755
	Area	26	19	19	19	22
	Prod.	15	14	21	10	15
Hingoli	Yield	584	763	1144	525	686
	Area	4	2	1	1	1
	Prod.	3	2	2	0	2
Jalgaon	Yield	568	1048	1364	588	1318
	Area	5	5	5	4	5
	Prod.	3	7	6	3	5
Jalna	Yield	711	1388	1098	768	1111
	Area	1	1	2	1	3
	Prod.	1	1	1	1	4
Kolhapur	Yield	385	727	625	1209	1453
	Area	56	49	55	43	42
	Prod.	90	93	82	62	51
Latur	Yield	1597	1896	1512	1455	1212
	Area	1	4	3	1	2
	Prod.	0	4	2	0	2
Nagpur	Yield	143	929	760	328	977
	Area	4	4	4	2	1
	Prod.	4	7	4	1	1
Nanded	Yield	1077	1558	1194	572	561
	Area	5	12	4	3	11
	Prod.	3	10	3	2	12
Nandurbar	Yield	542	872	692	825	1174
	Area	5	4	4	4	7
	Prod.	5	4	4	3	9
Nasikh	Yield	922	837	1051	629	1188
	Area	20	23	24	26	28
	Prod.	18	37	34	24	22
Osmanabad	Yield	924	1646	1379	944	799
	Area	6	6	6	4	6
	Prod.	1	3	4	2	4
Parbhani	Yield	214	527	672	539	677
	Area	0	4	5	0.2	1
	Prod.	0	5	6	0.2	1
Pune	Yield	1000	1125	1196	844	1954
	Area	26	22	22	24	28
	Prod.	39	28	23	23	35
Raigad	Yield	1520	1294	1065	930	1254
	Prod.	0.2	0.2	0.1	0.2	0.01
	Yield	0.3	0.3	0.2	1	0.03
	Prod.	1500	1500	1626	4042	3300

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Ratnagiri	Yield	0.01	0.1	0.03	0.1	0.1
	Prodn.	0.01	0.1	0.04	0.2	0.1
	Yield	1000	700	1481	3000	2424
Sangli	Area	30	33	29	28	32
	Prodn.	23	42	35	29	27
	Yield	748	1282	1205	1050	829
Satara	Area	45	43	36	41	36
	Prodn.	65	59	52	46	35
	Yield	1442	1379	1445	1117	988
Sindhudurg	Area	3	1	1	1	1
	Prodn.	4	2	3	4	2
	Yield	1517	1500	2000	2569	1788
Solapur	Area	4	5	5	4	6
	Prodn.	3	6	6	2	7
	Yield	829	1118	1078	572	1091
Wardha	Area	11	3	2	1	1
	Prodn.	20	5	2	1	3
	Yield	1809	1742	1188	1320	2058
Washim	Area	1	9	0	2	7
	Prodn.	1	8	1	2	9
	Yield	1000	857	1750	874	1392
Yavatmal	Area	13	41	3	6	8
	Prodn.	12	27	4	6	18
	Yield	946	662	1226	1007	2132
Manipur						
Bishnupur	Area	0.4	0.4	0.4	0.3	
	Prodn.	0.4	0.4	0.4	0.3	
	Yield	843	828	896	898	
Chandel	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	848	848	1015	1006	
Churachandpur	Area	0.4	0.4	0.4	0.4	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	931	953	958	950	
Imphal East	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	975	984	984	984	
Imphal West	Area	0.4	0.4	0.4	0.4	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	865	865	931	931	
Senapati	Area	0.4	0.4	0.4	0.4	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	929	917	943	946	

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Tamenglong	Area	0.4	0.4	0.4	0.4	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	867	880	893	891	
Thoubal	Area	0.5	0.5	0.5	0.5	
	Prodn.	0.4	0.4	0.5	0.4	
	Yield	887	876	979	917	
Ukhrul	Area	0.4	0.4	0.4	0.4	
	Prodn.	0.3	0.3	0.3	0.3	
	Yield	811	824	877	877	
Nagaland						
Dimapur	Area	0.2	0.2	0.2	0.2	0.2
	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	1059	1056	1056	1056	1064
Kiphire	Area	0.03	0.03	0.04	0.04	0.04
	Prodn.	0.03	0.03	0.04	0.04	0.04
	Yield	1000	1000	1000	1000	1048
Kohima	Area	0.08	0.08	0.08	0.08	0.08
	Prodn.	0.08	0.08	0.08	0.08	0.08
	Yield	1000	1000	1000	1000	1012
Longleng	Area	0.02	0.04	0.05	0.05	0.05
	Prodn.	0.02	0.04	0.05	0.05	0.06
	Yield	1000	1000	1000	1000	1058
Mokokchung	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.2	0.2	0.2
	Yield	1077	1077	1071	1071	1041
Mon	Area	0.04	0.04	0.04	0.05	0.05
	Prodn.	0.04	0.04	0.04	0.05	0.05
	Yield	1000	1000	1000	1000	1020
Peren	Area	0.07	0.08	0.08	0.09	0.09
	Prodn.	0.07	0.08	0.08	0.09	0.1
	Yield	1000	1000	1000	1000	1021
Phek	Area	0.06	0.06	0.07	0.07	0.07
	Prodn.	0.07	0.06	0.08	0.08	0.08
	Yield	1167	1000	1143	1143	1151
Tuensang	Area	0.09	0.09	0.09	0.1	0.1
	Prodn.	0.09	0.09	0.09	0.1	0.1
	Yield	1000	1000	1000	1000	1010
Wokha	Area	0.08	0.08	0.08	0.08	0.1
	Prodn.	0.08	0.08	0.08	0.08	0.1
	Yield	1000	1000	1000	1000	1012
Zunheboto	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	1000	1083	1083	1077	1074

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Odisha						
Anugul	Area	2	2	2	1	12
	Prodn.	20	3	3	2	19
	Yield	1250	1316	1286	1475	1603
Balangir	Area	5	4	1	0	7
	Prodn.	4	4	1	1	12
	Yield	867	1029	1000	1542	1678
Baleshwar	Area	2	1	1	0	
	Prodn.	3	1	1	0	
	Yield	1190	778	1000	1720	
Bargarh	Area	9	11	10	7	15
	Prodn.	7	10	9	6	24
	Yield	766	906	864	827	1575
Bhadrak	Area	0.03	0.7	0.1	0.02	0.3
	Prodn.	0.03	0.8	0.04	0.01	0.6
	Yield	1143	1133	698	737	1969
Boudh	Area	0.04	0.05	0.07	0.01	1
	Prodn.	0.03	0.04	0.07	0.01	1
	Yield	722	804	973	917	1620
Cuttack	Area	1	1	1	0.3	6
	Prodn.	2	1	1	0.4	11
	Yield	1571	1111	1444	1296	1858
Deogarh	Area	0.03	0.3	0.1	0.4	3
	Prodn.	0.1	0.5	0.2	1	4
	Yield	2259	1539	1457	2286	1544
Dhenkanal	Area	3	1	2	1	11
	Prodn.	4	2	3	1	20
	Yield	1276	1778	1625	1526	1826
Gajapati	Area	0.1	0.2	0.2	0.1	3
	Prodn.	0.1	0.3	0.3	0.1	5
	Yield	1202	1154	1741	1161	1900
Ganjam	Area	3	2	1	1	11
	Prodn.	4	3	2	2	20
	Yield	1444	1474	1357	1394	1815
Jagatsinghapur	Area	1	0.3	0.4	0	5
	Prodn.	1	0.4	0.4	0.1	10
	Yield	1286	1333	1000	1551	2049
Jalapur	Area	13	8	6	8	21
	Prodn.	13	12	5	9	42
	Yield	1032	1500	857	1168	2041
Jharsuguda	Area	0.02	0.1	0.2	0.1	0.5
	Prodn.	0.04	0.1	0.2	0.1	1
	Yield	2188	1339	1275	1543	1622

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Kalahandi	Area	1	4	1	1	11
	Prodn.	1	4	1	1	18
	Yield	667	1050	1000	1033	1732
Kandhamal	Area	0.1	0.1	0.05	0.1	2
	Prodn.	0.1	0.1	0.1	0.1	3
	Yield	915	1057	1444	1143	1483
Kendrapara	Area	1	0.4	0.3	1	6
	Prodn.	1	1	0.4	1	3
	Yield	1200	1250	1333	1860	462
Kendujhar	Area	0.3	0.3	0.1	0.02	3
	Prodn.	0.6	0.4	0.2	0.04	3
	Yield	1690	1096	1376	1762	1123
Khordha	Area	1	0.2	0.1	0.2	1
	Prodn.	1	0.4	0.2	1	1
	Yield	1256	2457	2027	3900	1941
Koraput	Area	1	1	2	4	3
	Prodn.	1	1	3	5	34
	Yield	1300	1222	1409	1516	10977
Malkangiri	Area	2	1	1	1	16
	Prodn.	5	2	3	2	9
	Yield	2409	3143	3000	2926	544
Mayurbhanj	Area	1	1	1	0.4	5
	Prodn.	2	1	1	0.5	3
	Yield	1154	1333	1600	1313	679
Nabarangpur	Area	0.3	0.5	0	0.1	1.3
	Prodn.	0.1	0.3	0	0.1	1.3
	Yield	458	563	767	401	993
Nayagarh	Area	0	0.02	0.1	0.01	1
	Prodn.	0	0.03	0.2	0.01	7
	Yield	1500	1579	2381	833	5158
Nuapada	Area	1	3	1	0.5	8
	Prodn.	1	3	1	1	18
	Yield	857	1077	909	1179	2194
Puri	Area	3	2	1	1	5
	Prodn.	4	4	2	2	11
	Yield	1235	1792	1364	1916	2017
Rayagada	Area	0.3	0.3	0.1	0.3	2
	Prodn.	0.3	0.2	0.1	0.4	3
	Yield	873	690	1010	1080	1690
Sambalpur	Area	0.04	0.01	-	0.01	1
	Prodn.	0.03	0	-	0.01	2
	Yield	722	800	-	667	1737
Sonepur	Area	1	0.4	0.1	0.2	3

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Sundargarh	Prod.	1	1	0.3	0.3	5
	Yield	1200	1750	3000	1435	1821
	Area	0.3	1	1	0.3	3
	Prod.	0.3	1	1	0.3	4
	Yield	1000	1167	1000	1215	1528
Puducherry						
Karaikal	Area	-	-	-		
	Prod.	-	-	-		
Pondicherry	Yield	-	-	-		
	Area	0.3	0.3	0.3	0.3	
	Prod.	0.9	0.8	0.8	0.9	
	Yield	2987	2968	3000	3199	
Punjab						
Fazilka	Area	-	0.2	-	-	
	Prod.	-	0.4	-	-	
	Yield	-	2000	-	-	
Hoshiarpur	Area	1	1	1	1	
	Prod.	2	2	2	3	
	Yield	1900	1900	1917	2000	
Rajasthan						
Ajmer	Area	2	2	2	1	1
	Prod.	3	2	2	1	2
	Yield	1417	1333	1400	1064	1385
Alwar	Area	1	1	0.4	0.3	0.2
	Prod.	2	2	1	1	0.4
	Yield	2000	1545	1500	2053	2195
Banswara	Area	0.2	0.2	0.3	0.3	0.3
	Prod.	0.3	0.4	1	1	1
	Yield	2030	2047	1953	2052	2194
Baran	Area	1	1	1	1	0
	Prod.	1	2	2	1	1
	Yield	2000	2100	1900	2053	2195
Barmer	Area	3	4	4	3	4
	Prod.	6	7	6	5	8
	Yield	2069	1805	1341	1344	2245
Bharatpur	Area	0.01	0.01	0.003	0.004	0.003
	Prod.	0.02	0.01	0.01	0.01	0.01
	Yield	2000	2000	2000	2000	2333
Bhilwara	Area	8	9	9	11	12
	Prod.	6	9	11	17	9
	Yield	756	947	1209	1513	787
Bikaner	Area	166	175	221	239	245
	Prod.	403	467	514	531	529

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Bundi	Yield	2432	2672	2330	2223	2159
	Area	1	0.4	0.4	0.3	0.4
	Prod.	1	1	1	1	1
Chittorgarh	Yield	2000	2250	2000	2055	2195
	Area	12	17	19	26	25
	Prod.	11	14	31	51	20
Churu	Yield	974	845	1688	1981	784
	Area	47	53	64	73	73
	Prod.	101	134	145	179	166
Dausa	Yield	2144	2552	2279	2452	2277
	Area	12	10	9	10	11
	Prod.	14	13	15	18	21
Dholpur	Yield	1148	1304	1604	1743	1880
	Area	0.04	0.04	0.04	0.04	0.04
	Prod.	0.1	0.1	0.1	0.1	0.1
Dungarpur	Yield	2023	2045	1943	2057	2190
	Area	0.02	0.04	0.04	0.03	0.02
	Prod.	0.03	0.1	0.1	0.1	0.1
Ganganagar	Yield	2000	2047	1952	2063	2208
	Area	2	4	5	7	7
	Prod.	3	5	9	15	17
Hanumangarh	Yield	2000	1429	1604	2172	2394
	Area	8	24	22	16	12
	Prod.	15	38	46	32	26
Jaipur	Yield	1762	1596	2130	1959	2212
	Area	38	33	32	31	37
	Prod.	58	61	54	65	84
Jaisalmer	Yield	1513	1817	1689	2102	2246
	Area	17	20	26	34	41
	Prod.	31	26	42	55	77
Jalore	Yield	1803	1318	1642	1604	1879
	Area	14	18	21	18	20
	Prod.	23	35	29	27	53
Jhalawar	Yield	1583	1945	1408	1564	2619
	Area	1	1	2	1	1
	Prod.	2	3	3	2	2
Jhunjhunu	Yield	2000	2000	1933	2054	2194
	Area	3	4	4	6	8
	Prod.	6	7	8	15	18
Jodhpur	Yield	1931	1973	1744	2296	2200
	Area	113	115	129	112	152
	Prod.	267	198	242	215	402
	Yield	2355	1719	1870	1921	2655

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Karauli	Area	1	1	0	0	0
	Prodn.	1	1	1	1	1
	Yield	1400	1400	2333	2054	2194
Kota	Area	0.2	0.4	0.4	0.2	0.1
	Prodn.	0.4	1	1	0.5	0.3
	Yield	2000	1750	2000	2056	2198
Nagaur	Area	15	15	18	18	18
	Prodn.	21	31	31	33	39
	Yield	1455	2110	1756	1840	2227
Pali	Area	1	1	1	1	1
	Prodn.	2	2	1	1	2
	Yield	2100	2000	1000	1722	2195
Pratapgarh	Area	0.4	0.4	1	2	2
	Prodn.	1	1	2	3	1
	Yield	1750	2250	2143	2054	618
Rajsamand	Area	1	1	1	1	1
	Prodn.	1	3	3	2	3
	Yield	538	2000	1923	2053	2195
Sawai Madhopur	Area	3	3	2	2	2
	Prodn.	4	4	2	3	4
	Yield	1219	1344	1043	1330	1487
Sikar	Area	21	22	23	25	26
	Prodn.	43	49	50	58	63
	Yield	2005	2249	2227	2294	2413
Sirohi	Area	12	14	18	16	15
	Prodn.	18	17	0	27	37
	Yield	1569	1187	0	1702	2506
Tonk	Area	16	11	12	15	18
	Prodn.	10	13	11	20	26
	Yield	639	1208	966	1315	1441
Udaipur	Area	2	2	1	1	1
	Prodn.	1	1	1	1	1
	Yield	500	875	786	925	653
Tamil Nadu						
Ariyalur	Area	8.6	8.6	9.9	9	9
	Prodn.	36	34	38	38	36
	Yield	4209	3919	3859	4121	4060
Coimbatore	Area	5	3	4	5	3
	Prodn.	11	6	7	11	9
	Yield	2245	1788	2000	2269	2717
Cuddalore	Area	10	9	10	10	10
	Prodn.	62	65	74	60	52
	Yield	6490	7547	7366	6152	5267

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Dharmapuri	Area	11	8	11	10	11
	Prodn.	29	11	34	19	48
	Yield	2762	1403	3073	1985	4149
Dindigul	Area	10	4	6	3	3
	Prodn.	29	7	18	9	9
	Yield	2808	2056	2873	2620	2807
Erode	Area	21	17	19	19	18
	Prodn.	36	12	45	38	36
	Yield	1741	721	2384	2019	1979
Kanchipuram	Area	11	10	10	14	10
	Prodn.	34	32	39	59	50
	Yield	3072	3344	3769	4247	4922
Kanniyakumari	Area	0	0	0	0	0
	Prodn.	0	0	0	0	0
	Yield	2571	1933	3400	2207	2500
Karur	Area	4	2	3	1	1
	Prodn.	12	4	8	4	3
	Yield	2773	2250	2581	3095	2868
Krishnagiri	Area	13	13	11	11	8
	Prodn.	29	25	33	39	27
	Yield	2270	1857	3105	3421	3330
Madurai	Area	3	2	2	2	3
	Prodn.	4	4	5	4	5
	Yield	1692	2316	2944	2393	1940
Nagapattnam	Area	2	2	2	2	3
	Prodn.	7	6	7	4	11
	Yield	3824	3647	3941	2105	4358
Namakkal	Area	31	27	28	32	31
	Prodn.	56	17	66	47	71
	Yield	1768	635	2385	1470	2254
Perambalur	Area	3	1	2	1	2
	Prodn.	8	3	5	2	6
	Yield	2828	2250	2091	2690	2743
Pudukkottai	Area	8	8	11	10	11
	Prodn.	26	19	31	23	31
	Yield	3188	2298	2906	2214	2973
Ramanathapuram	Area	3	3	3	3	3
	Prodn.	4	1	3	3	6
	Yield	1375	387	1103	925	2130
Salem	Area	22	16	18	20	20
	Prodn.	47	28	47	35	55
	Yield	2161	1747	2672	1759	2764
Sivaganga	Area	3	3	3	3	3

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Thanjavur	Prod.	5	4	6	5	6
	Yield	1516	1393	2065	1698	2273
	Area	5	7	8	6	8
	Prod.	22	27	33	27	43
	Yield	4625	3694	4100	4480	5275
	Area	2	1	2	2	2
Theni	Prod.	8	4	4	7	6
	Yield	3417	2786	2471	3371	3184
	Area	7	7	8	5	6
Thiruvallur	Prod.	33	29	34	17	28
	Yield	4592	4462	4359	3115	4619
	Area	2	3	3	3	3
Thiruvarur	Prod.	12	9	13	14	14
	Yield	5762	3720	4400	4396	4856
	Area	1	1	1	1	1
Thoothukudi	Prod.	3	2	2	2	3
	Yield	2926	2980	3717	3200	3718
	Area	10	7	10	7	8
Tiruchirapalli	Prod.	21	9	29	20	19
	Yield	2168	1257	2808	3024	2307
	Area	2	1	1	1	1
Tirunelveli	Prod.	6	1	2	2	4
	Yield	2850	1750	3000	2676	3157
	Area	9	5	8	8	7
Tiruppur	Prod.	17	5	21	15	8
	Yield	2012	870	2512	1942	1167
	Area	67	51	64	73	81
Tiruvannamalai	Prod.	116	86	202	200	235
	Yield	1733	1692	3161	2718	2891
	Area	1	1	1		
Tuticorin	Prod.	3	2	2		
	Yield	2818	2875	3667		
	Area	35	34	30	33	36
Vellore	Prod.	106	82	79	84	10
	Yield	3066	2383	2638	2571	276
	Area	34	24	37	37	41
Villupuram	Prod.	101	51	117	114	106
	Yield	2968	2116	3173	3126	2590
	Area	6	5	5	5	5
Virudhunagar	Prod.	13	6	5	9	8
	Yield	2145	1056	981	1670	1563
Telangana						
Adilabad	Area	2	1	1	1	0.4

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	4	3	2	2	1
	Yield	2250	2077	2300	2489	2347
	Area	-	2	1	2	1
Bhadradi Kothagudem	Prod.	-	5	4	4	3
	Yield	-	2208	2923	2370	2570
	Area	-	1	1	1	0.2
Jagitial	Prod.	-	2	1	1	0.4
	Yield	-	1714	1556	1427	1745
	Area	-	5	2	1	1
Janagoan	Prod.	-	7	4	2	1
	Yield	-	1521	1750	1583	1705
	Area	-	1	1	0.1	0.1
Jayashankar Bhupalpally	Prod.	-	3	1	0.2	0.1
	Yield	-	2167	1750	2141	2386
	Area	-	26	20	15	11
Jogulamba Gadwal	Prod.	-	52	47	37	28
	Yield	-	2023	2365	2480	2577
	Area	-	0.3	0.2	0.1	0.03
Kamareddy	Prod.	-	1	0.4	0.2	0.1
	Yield	-	2000	2000	2494	2353
	Area	6	2	2	1	2
Karimnagar	Prod.	9	6	3	4	3
	Yield	1466	2435	1611	2700	1673
	Area	5	3	2	1	1
Khammam	Prod.	15	4	4	3	1
	Yield	2722	1571	2167	2245	1570
	Area	-	-	-	0.02	0.1
Komaram Bheem Asifabad	Prod.	-	-	-	0.1	0.1
	Yield	-	-	-	2500	2500
	Area	-	9	9	6	2
Mahabubabad	Prod.	-	12	14	9	4
	Yield	-	1349	1527	1622	1838
	Area	79	15	19	3	4
Mahabubnagar	Prod.	126	28	44	6	8
	Yield	1594	1841	2339	2235	2104
	Area	-	-	-	0.2	0.1
Mancherial	Prod.	-	-	-	0.5	0.2
	Yield	-	-	-	2489	2349
	Area	1	0.3	0.1	0.1	0.04
Medak	Prod.	1	1	0.3	0.1	0.1
	Yield	833	2333	3000	2491	2297
	Area	-	-	-	0.4	0.4
Mulugu	Prod.	-	-	-	1	1

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Nagarkurnool	Yield	-	-	-	2123	1848
	Area	-	43	54	46	50
	Prod.	-	97	124	113	108
Nalgonda	Yield	-	2262	2302	2455	2156
	Area	12	8	5	4	5
	Prod.	12	11	10	7	9
Narayanapet	Yield	1034	1461	1943	1748	1793
	Area	-	-	-	6	2
	Prod.	-	-	-	13	5
Nirmal	Yield	-	-	-	2248	2114
	Area	-	1	0.2	0.3	0.1
	Prod.	-	1	1	1	0.3
Nizambad	Yield	-	2167	2500	2488	2336
	Area	1	0.3	0.2	0.1	0.1
	Prod.	2	1	1	0.3	0.3
Peddapalli	Yield	2500	2333	2500	2496	2667
	Area	-	-	-	0.04	0
	Prod.	-	-	-	0.1	0.01
Rajanna Sircilla	Yield	-	-	-	2500	2250
	Area	-	-	-	0.1	0
	Prod.	-	-	-	0.4	0.1
Ranga Reddy	Yield	-	-	-	2490	2313
	Area	3	1	1	1	1
	Prod.	4	2	4	1	2
Sangareddy	Yield	1212	2000	3077	2712	3995
	Area	-	-	-	0.1	0
	Prod.	-	-	-	0.3	0.1
Siddipet	Yield	-	-	-	2491	2364
	Area	-	1	1	1	1
	Prod.	-	3	2	3	1
Suryapet	Yield	-	2071	1818	2268	1862
	Area	-	10	7	5	2
	Prod.	-	14	14	8	5
Vikarabad	Yield	-	1434	1919	1791	2748
	Area	-	5	5	4	3
	Prod.	-	9	11	9	9
Wanaparthy	Yield	-	1750	2038	2458	2745
	Area	-	23	27	22	19
	Prod.	-	54	57	69	57
Warangal Rural	Yield	-	2332	2143	3073	3030
	Area	20	7	7	7	4
	Prod.	35	23	23	21	13
	Yield	1772	3286	3257	3167	3295

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Warangal Urban	Area	-	1	1	0.5	1
	Prodn.	-	1	1	1	2
	Yield	-	2333	2167	2489	2388
Yadadri Bhuvanagiri	Area	-	-	-	0.3	0.1
	Prodn.	-	-	-	1	0.4
	Yield	-	-	-	2500	2612
Tripura						
Dhalai	Area	0.3	0.4	0.5	0.5	
	Prodn.	0.4	0.6	0.7	0.7	
	Yield	1209	1458	1481	1432	
Gomati	Area	0.2	0.2	0.3	0.3	
	Prodn.	0.2	0.3	0.3	0.3	
	Yield	1152	1502	1057	1212	
Khowai	Area	0.1	0.1	0.1	0.3	
	Prodn.	0.1	0.2	0.1	0.4	
	Yield	1170	1429	1159	1427	
North Tripura	Area	0.1	0.1	0.2	0.1	
	Prodn.	0.1	0.2	0.3	0.2	
	Yield	1162	1434	1212	1262	
Sepahijala	Area	0.1	0.1	0.2	0.2	
	Prodn.	0.1	0.2	0.2	0.2	
	Yield	1041	1394	979	1356	
South Tripura	Area	0.2	0.3	0.2	0.3	
	Prodn.	0.2	0.5	0.3	0.4	
	Yield	1159	1416	1180	1423	
Unakoti	Area	0.1	0.1	0.2	0.2	
	Prodn.	0.1	0.2	0.3	0.3	
	Yield	1122	1518	1241	1370	
West Tripura	Area	0.3	0.4	0.5	0.4	
	Prodn.	0.3	0.6	0.6	0.6	
	Yield	1116	1497	1158	1408	
Uttar Pradesh						
Agra	Area	0.005	-	-	-	-
	Prodn.	0.008	-	-	-	-
	Yield	1600	-	-	-	-
Aligarh	Area	0.01	0.1	0.02	0.02	0.1
	Prodn.	0.01	0.1	0.02	0.02	0.1
	Yield	667	901	1000	1000	939
Allahabad	Area	-	-	-	-	0.02
	Prodn.	-	-	-	-	0.02
	Yield	-	-	-	-	955
Amethi	Area	-	0.01	0.01	0.01	0.01
	Prodn.	-	0.01	0.01	0.01	0.01

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Amroha	Yield	-	-	-	1000	1000
	Area	-	-	-	-	0.02
	Prod.	-	-	-	-	0.06
Auraiya	Yield	-	-	-	-	2727
	Area	0.01	0.1	0.1	0.01	0.1
	Prod.	0.003	0.05	0.08	0.01	0.076
Azamgarh	Yield	600	904	1013	1000	938
	Area	0.2	0	0.1	0.1	0.2
	Prod.	0.1	0	0.1	0.1	0.2
Bahraich	Yield	675	905	1019	1000	941
	Area	1	1.5	1.7	1.8	1.4
	Prod.	0.7	1.4	1.7	1.8	1.3
Ballia	Yield	700	933	1000	994	942
	Area	0.2	0.2	0.2	0.2	0.5
	Prod.	0.1	0.2	0.2	0.2	0.5
Balrampur	Yield	675	904	1013	996	942
	Area	0.01	0.01	0.01	0.01	0.01
	Prod.	0.01	0.01	0.01	0.01	0.01
Banda	Yield	625	833	1000	1000	1000
	Area	0.8	0.6	0.4	0.9	0.7
	Prod.	0.4	0.4	0.7	1.1	0.8
Barabanki	Yield	500	667	1750	1245	1214
	Area	0.05	0.2	0.2	0.3	0.3
	Prod.	0.02	0.2	0.2	0.3	0.3
Bareilly	Yield	489	903	1011	994	943
	Area	0.4	1.2	0.9	0.5	0.2
	Prod.	1.1	1.5	1.3	0.5	0.2
Basti	Yield	2750	1250	1444	1153	939
	Area	0.001	0.001	0.001	0.001	0.001
	Prod.	0.001	0.001	0.001	0.001	0.001
Bijnor	Yield	1000	1000	1000	1000	1000
	Area	0.8	0.6	0.9	0.8	0.8
	Prod.	1	0.5	0.9	0.8	2
Budaun	Yield	1250	833	1000	994	2725
	Area	0.2	0.5	0.5	0.5	0.5
	Prod.	0.2	0.6	0.8	0.6	0.5
Bulandshahr	Yield	1021	1051	1476	1152	943
	Area	0.002	0.002	0.002	0.002	0.015
	Prod.	0.001	0.002	0.002	0.002	0.014
Chandauli	Yield	500	1000	1000	1000	933
	Area	0.003	0.003	0.003	0.003	0.003
	Prod.	0.002	0.002	0.003	0.003	0.003
Chandauli	Yield	667	667	1000	1000	1000

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Chitrokoot	Area	0.376	0.006	0.009	0.001	0.017
	Prodn.	0.134	0.003	0.008	0.001	0.013
	Yield	356	500	889	1000	765
Deoria	Area	2.3	1.9	1.9	2	3.9
	Prodn.	1.3	1.9	1.9	1	2
	Yield	581	972	970	479	510
Etah	Area	1.1	0.4	0.6	0.4	1
	Prodn.	0.8	0.3	0.6	0.4	0.9
	Yield	675	904	1014	995	942
	Area	0.1	0.7	0.1	0.2	0.1
Etawah	Prodn.	0.1	0.7	0.1	0.2	0.1
	Yield	678	904	1015	994	938
Farrukhabad	Area	0.8	1.2	0.8	0.9	1.2
	Prodn.	0.5	1.1	0.8	0.8	1.1
	Yield	676	904	1013	994	942
Fatehpur	Area	0	0.2	0.2	0.3	0.3
	Prodn.	0	0.2	0.2	0.3	0.2
	Yield	690	902	1014	972	947
Firozabad	Area	0.2	0.1	0.4	0.2	0.1
	Prodn.	0.3	0.3	0.5	0.2	0.3
	Yield	1578	2492	1118	1054	2245
Ghazipur	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.05	0.05	0.1	0.1	0.1
	Yield	681	906	1018	1000	945
Gonda	Area	0.02	0.02	0.02	0.03	0.04
	Prodn.	0.02	0.02	0.02	0.02	0.04
	Yield	889	1000	1000	923	907
Gorakhpur	Area	3.8	3.1	3.1	3.4	3.1
	Prodn.	3.8	2.5	3.2	3.3	3.3
	Yield	1014	811	1063	967	1064
Hamirpur	Area	0.2	0.2	0.2	0.2	1.8
	Prodn.	0.1	0.1	0.2	0.3	1.4
	Yield	359	521	923	1486	781
Hardoi	Area	8.5	7.8	8.5	8.1	7.9
	Prodn.	7.5	9.8	9.1	9.2	11.6
	Yield	884	1245	1061	1126	1473
Hathras	Area	0.03	0.001	0.002	0.01	0.002
	Prodn.	0.02	0.001	0.002	0.01	0.002
	Yield	679	1000	1000	1000	1000
Jalaun	Area	0	0.01	0.01	0.02	0.01
	Prodn.	0	0.01	0.01	0.02	0.01
	Yield	333	818	909	810	833
Jaunpur	Area	-	-	-	0.2	0.03

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Jhansi	Prod.	-	-	-	0.2	0.03
	Yield	-	-	-	995	929
	Area	27	22	23	30	21
	Prod.	13	18	22	26	17
	Yield	470	853	958	855	810
	Area	1	2	2	2	2
Kannauj	Prod.	1	2	2	2	2
	Yield	675	904	1013	994	942
	Area	0.01	-	-	0.02	-
Kanpur Dehat	Prod.	0	-	-	0.02	-
	Yield	600	-	-	1000	-
	Area	0.2	0.2	0.1	0.2	0.2
Kanpur nagar	Prod.	0.1	0.1	0.1	0.2	0.2
	Yield	674	907	1015	995	944
	Area	0.3	0.8	0.2	0.1	0.3
Kasganj	Prod.	0.2	0.7	0.2	0.1	0.3
	Yield	674	904	1012	993	942
	Area	0.02	0.02	0.02	0.02	0.04
Kaushambi	Prod.	0.02	0.02	0.02	0.02	0.04
	Yield	696	909	1000	952	953
	Area	4	7	6	7	6
Kheri	Prod.	4	6	5	6	5
	Yield	840	935	799	833	810
	Area	0.4	0.4	0.5	0.4	0.4
Kushi Nagar	Prod.	0.3	0.5	0.5	0.4	0.3
	Yield	843	1034	1086	841	745
	Area	12	10	8	9	11
Lalitpur	Prod.	6	8	5	7	9
	Yield	505	811	600	701	853
	Area	0.1	0.1	0.1	0.3	0.1
Lucknow	Prod.	0.1	0.1	0.1	0.3	0.1
	Yield	800	969	944	1004	1138
	Area	1	3	1	1	1
Mahaajganj	Prod.	1	4	2	1	1
	Yield	787	1326	1325	1110	675
	Area	11	8	6	10	7
Mahoba	Prod.	4	4	5	15	5
	Yield	344	505	876	1509	739
	Area	3	1	0.2	1	1
Mainpuri	Prod.	4	3	0.3	1	3
	Yield	1577	2493	1119	1051	2248
	-	-	-	-	0.05	-
Mathura	-	-	-	-	0.05	-
	-	-	-	-	0.05	-

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State/District	2015-16	2016-17	2017-18	2018-19	2019-2020
	-	-	-	1043	-
	-	0.3	0.5	0.4	0.4
Mau	-	0.2	0.4	0.5	0.4
	-	675	905	1013	941
	Area	0.4	2	2	2
Mirzapur	Prod.	0.3	1	5	2
	Yield	780	314	2108	1745
	Area	-	-	0.001	0.001
Muzaffarnagar	Prod.	-	-	0.001	0.001
	Yield	-	-	1000	1000
	Area	1	0.4	1	0.4
Pilibhit	Prod.	1	0.4	1	0.4
	Yield	1283	1241	1477	1153
	Area	-	0.001	0.001	0.001
Pratapgarh	Prod.	-	0.001	0.001	0.001
	Yield	-	1000	1000	1000
	Area	1	1	1	1
Rae Bareli	Prod.	0.2	0.3	1	1
	Yield	272	308	994	1022
	Area	0.01	0.02	0.01	0.01
Rampur	Prod.	0.02	0.02	0.01	0.01
	Yield	1231	762	1000	1000
	Area	4	4	4	3
Saharanpur	Prod.	4	4	4	3
	Yield	1146	968	1096	1058
	Area	0.01	0	0.01	0.01
Sambhal	Prod.	0.02	0	0.01	0.01
	Yield	1214	1000	1000	1000
	Area	1	1	1	1
Sant Kabeer Nagar	Prod.	1	1	1	1
	Yield	675	904	1013	994
	Area	0.02	-	-	-
Sant Ravidas Nagar	Prod.	0.02	-	-	-
	Yield	750	-	-	-
	Area	4	4	4	4
Shahjahanpur	Prod.	4	6	6	5
	Yield	1159	1264	1477	1153
	Area	0.1	0.1	0.2	0.2
Shravasti	Prod.	0.1	0.1	0.2	0.2
	Yield	680	904	1012	995
	Area	0.08	0.04	0.04	0.05
Siddharth Nagar	Prod.	0.05	0.03	0.04	0.05
	Yield	675	895	1000	1000

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Sitapur	Area	3	3	2	3	3
	Prodn.	2	2	2	2	3
	Yield	726	921	954	802	1146
Sonbhadra	Area	0.3	0.3	0.4	1	1
	Prodn.	0.2	0.1	1	1	1
	Yield	780	314	2108	1206	755
Sultanpur	Area	0.02	0.02	0.02	0.02	0.04
	Prodn.	0.01	0.02	0.02	0.02	0.04
	Yield	474	889	1000	1000	930
Unnao	Area	2	3	3	3	3
	Prodn.	1	2	2	3	3
	Yield	654	566	863	1268	1181
Varanasi	Area	0.001	0.001	0.001	0.01	0.01
	Prodn.	0.001	0.001	0.001	0.01	0.01
	Yield	1000	1000	1000	1000	889
Uttarakhand						
Almora	Area	0.002	-	0.001	0.01	
	Prodn.	0.002	-	0.001	0.01	
	Yield	1000	-	1000	1000	
Bageshwar	Area	-	-	-	-	
	Prodn.	-	-	-	-	
	Yield	-	-	-	-	
Champawat	Area	0.005	0.011	0.023	0.025	
	Prodn.	0.005	0.014	0.032	0.026	
	Yield	1000	1273	1391	1040	
Dehradun	Area	0.073	0.047	0.012	0.039	
	Prodn.	0.08	0.061	0.017	0.04	
	Yield	1096	1298	1417	1026	
Haridwar	Area	0.776	0.807	0.637	0.546	
	Prodn.	1.117	1.048	0.877	0.567	
	Yield	1439	1299	1377	1038	
Nainital	Area	0.047	0.054	0.109	0.084	
	Prodn.	0.048	0.07	0.15	0.087	
	Yield	1021	1296	1376	1036	
Pauri Garhwal	Area	-	-	0.001	-	
	Prodn.	-	-	0.001	-	
	Yield	-	-	1000	-	
Pithoragarh	Area	0.011	-	0.002	-	
	Prodn.	0.011	-	0.003	-	
	Yield	1000	-	1500	-	
Udam Singh Nagar	Area	0.015	0.016	0.02	0.005	
	Prodn.	0.015	0.021	0.028	0.005	
	Yield	1000	1313	1400	1000	

State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
West Bengal						
24 Paraganas North	Area	2	2	2	1	
	Prod.	3	5	5	3	
	Yield	1717	2044	2226	2390	
24 Paraganas South	Area	0.07	0.04	0.08	0.03	
	Prod.	0.1	0.1	0.2	0.1	
	Yield	1899	2200	2244	2438	
Alipurduar	Area	-	1	0.4	0.5	
	Prod.	-	1	1	1	
	Yield	-	1667	2250	1784	
Bankura	Area	1	1	1	1	
	Prod.	2	2	2	3	
	Yield	1455	1500	1846	2054	
Birbhum	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.2	0.1	
	Yield	1085	1090	2100	1553	
Cooch-Behar	Area	1	1	0.3	0.4	
	Prod.	1	1	1	1	
	Yield	833	833	3333	1421	
Darjeeling	Area	0.01	0.01	0.02	0.02	
	Prod.	0.02	0.01	0.05	0.05	
	Yield	1800	1714	2182	3400	
Dinajpur Dakshin	Area	0.004	0.03	0.03	0.18	
	Prod.	0.007	0.1	0.1	1	
	Yield	1750	2517	2941	3093	
Dinajpur Uttar	Area	0.1	0.2	0.2	0.1	
	Prod.	0.3	0.6	0.4	0.2	
	Yield	3000	3000	2000	1952	
Hooghly	Area	20	13	14	15	
	Prod.	44	29	37	37	
	Yield	2237	2212	2559	2431	
Howrah	Area	10	5	5	4	
	Prod.	22	11	10	11	
	Yield	2281	2224	2267	2662	
Jalpaiguri	Area	4	4	4	4	
	Prod.	7	7	8	8	
	Yield	1711	1895	2027	1978	
Jhargram	Area	-	5	4	6	
	Prod.	-	10	9	13	
	Yield	-	2021	2238	2218	
Maldah	Area	0.4	0.3	0.1	0.1	
	Prod.	0.3	0.3	0.4	0.4	
	Yield	750	1000	4000	3095	

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State/District		2015-16	2016-17	2017-18	2018-19	2019-2020
Medinipur East	Area	15	18	15	16	
	Prodn.	46	61	71	72	
	Yield	3026	3410	4745	4526	
Medinipur West	Area	17	12	14	7	
	Prodn.	32	22	27	19	
	Yield	1845	1807	1986	2657	
Murshidabad	Area	0.3	0.3	0.1	0.2	
	Prodn.	1	1	0.2	1	
	Yield	2667	3000	2000	2766	
Nadia	Area	4	6	5	6	
	Prodn.	8	11	8	12	
	Yield	1907	1914	1822	2084	
Paraganas North	Area	2	3	2	0.01	
	Prodn.	3	5	5	0.01	
	Yield	1765	2000	2182	1083	
Purba Bardhaman	Area	2	2	2	1	
	Prodn.	5	5	6	4	
	Yield	2125	2250	2636	2740	
Purulia	Area	1	1	1	3	
	Prodn.	1	1	1	3	
	Yield	1125	1125	1300	981	

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI; <http://eands.dacnet.nic.in>

3. Rapeseed and Mustard

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3.1 World Area, Production and Yield of Rapeseed & Mustard

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Production	Yield
2015	35136	70812	2015
2016	33562	68921	2054
2017	36409	77136	2119
2018	37846	75809	2003
2019	34881	71165	2040

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

3.2 Area, Production and Yield of Rapeseed & Mustard in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Algeria	Area	12	12	12	12	12
	Prod.	24	24	24	23	23
	Yield	1952	1967	1970	1974	1978
Argentina	Area	55	35	25	18	19
	Prod.	105	67	50	35	40
	Yield	1920	1903	1999	1946	2137
Australia	Area	2897	2091	2681	3171	2120
	Prod.	3540	2775	4313	3893	2366
	Yield	1222	1327	1609	1228	1116
Austria	Area	38	40	41	41	36
	Prod.	112	142	117	121	107
	Yield	2978	3578	2885	2980	2979
Bangladesh	Area	325	319	336	308	270
	Prod.	359	362	363	352	312
	Yield	1106	1136	1079	1143	1155
Belarus	Area	244	210	332	349	345
	Prod.	382	260	602	456	578
	Yield	1567	1239	1813	1306	1678
Belgium	Area	11	11	11	11	9
	Prod.	51	39	46	43	33
	Yield	4506	3442	4260	3828	3610
Bhutan	Area	1	1	1	0.5	1
	Prod.	1	1	1	0.3	0.4
	Yield	949	918	890	556	582
Bosnia and Herzegovina	Area	1	2	2	4	4
	Prod.	2	4	6	10	9
	Yield	2208	2659	2874	2673	2467
Brazil	Area	48	48	36	34	34
	Prod.	72	60	50	49	48

Country	Unit	2015	2016	2017	2018	2019
Bulgaria	Yield	1500	1250	1389	1441	1412
	Area	174	176	165	183	151
	Prod.	423	510	480	473	432
Canada	Yield	2428	2907	2908	2588	2861
	Area	8497	8458	9426	9317	8474
	Prod.	18500	19835	21450	20516	18783
Chile	Yield	2177	2345	2276	2202	2217
	Area	49	53	46	57	48
	Prod.	201	212	183	220	185
China	Yield	4074	3974	3961	3888	3847
	Area	7052	6647	6677	6574	6593
	Prod.	13878	13146	13292	13300	13503
Croatia	Yield	1968	1978	1991	2023	2048
	Area	22	37	49	55	41
	Prod.	57	113	136	156	104
Czechia	Yield	2583	3072	2793	2832	2512
	Area	382	405	406	412	380
	Prod.	1273	1372	1156	1411	1157
Denmark	Yield	3332	3388	2846	3426	3046
	Area	193	163	178	143	166
	Prod.	826	506	742	489	729
Estonia	Yield	4275	3102	4180	3430	4405
	Area	71	70	74	73	72
	Prod.	196	102	165	114	191
Ethiopia	Yield	2773	1462	2240	1563	2643
	Area	35	28	25	25	27
	Prod.	58	46	41	41	45
Finland	Yield	1663	1640	1640	1638	1635
	Area	55	60	55	53	32
	Prod.	85	94	91	71	42
France	Yield	1542	1555	1654	1330	1330
	Area	1511	1556	1408	1617	1107
	Prod.	5348	4757	5334	4981	3523
Germany	Yield	3540	3057	3788	3081	3183
	Area	1291	1332	1311	1228	857
	Prod.	5025	4588	4277	3677	2830
Greece	Yield	3891	3445	3262	2994	3303
	Area	8	8	10	3	4
	Prod.	15	16	19	8	10
Hungary	Yield	1819	2006	1818	2422	2175
	Area	225	261	307	331	301
	Prod.	594	928	936	1003	912
	Yield	2641	3558	3045	3033	3034

Country	Unit	2015	2016	2017	2018	2019
India	Area	5791	5762	6074	5977	6124
	Prodn.	6282	6797	7917	8430	9256
	Yield	1085	1180	1304	1410	1511
Iran	Area	107	134	158	190	140
	Prodn.	202	264	352	390	290
	Yield	1886	1973	2228	2050	2071
Ireland	Area	9	10	10	11	9
	Prodn.	40	34	42	40	37
	Yield	4483	3444	4131	3796	4057
Italy	Area	12	14	16	14	14
	Prodn.	28	35	41	40	38
	Yield	2293	2572	2660	2749	2685
Japan	Area	2	2	2	2	2
	Prodn.	3	4	4	3	4
	Yield	1939	1843	1854	1625	2174
Kazakhstan	Area	248	179	273	442	309
	Prodn.	150	177	294	440	254
	Yield	603	990	1076	996	821
Latvia	Area	88	100	112	122	139
	Prodn.	293	283	326	231	408
	Yield	3332	2830	2907	1897	2929
Lithuania	Area	165	155	182	205	242
	Prodn.	513	400	544	436	692
	Yield	3112	2584	2988	2123	2865
Luxembourg	Area	4	4	3	3	3
	Prodn.	14	11	11	11	10
	Yield	3484	3111	3462	3298	3493
Mexico	Area	11	5	3	2	3
	Prodn.	11	4	1	2	2
	Yield	1000	800	333	1000	667
Mongolia	Area	8	8	5	8	8
	Prodn.	23	21	14	24	25
	Yield	2753	2686	2840	2990	3146
Morocco	Area	1	2	2	2	1
	Prodn.	2	2	3	3	2
	Yield	2000	1000	1500	1500	2000
Myanmar	Area	59	57	48	46	45
	Prodn.	49	48	43	41	40
	Yield	828	853	887	887	884
Netherlands	Area	2	2	2	2	2
	Prodn.	9	5	8	6	6
	Yield	3899	3300	4067	2881	3376
Nepal	Area	176	170	160	173	202

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	154	172	160	183	210
	Yield	874	1010	996	1056	1041
	Area	1	1	0.5	0.5	0.4
New Zealand	Prodn.	2	1	1	1	1
	Yield	2012	2035	2000	2022	2023
	Area	2	1	2	1	0
North Macedonia	Prodn.	4	2	6	4	0
	Yield	2597	2097	2458	2700	3000
	Area	3	4	2	3	3
Norway	Prodn.	10	11	10	7	15
	Yield	2989	2759	4459	2210	4386
	Area	228	215	204	223	264
Pakistan	Prodn.	211	200	196	261	343
	Yield	926	932	961	1166	1297
	Area	89	85	89	30	40
Paraguay	Prodn.	107	116	107	36	60
	Yield	1202	1365	1202	1200	1500
	Area	947	823	914	845	875
Poland	Prodn.	2701	2219	2697	2106	2269
	Yield	2852	2698	2950	2492	2592
	Area	1	1	1	1	1
Republic of Korea	Prodn.	1	1	1	1	1
	Yield	1000	1000	1000	1000	1000
	Area	9	18	29	43	38
Republic of Moldova	Prodn.	16	43	71	86	77
	Yield	1873	2398	2483	1996	2032
	Area	370	459	600	633	353
Romania	Prodn.	923	1297	1676	1611	798
	Yield	2494	2827	2795	2546	2264
	Area	1038	1044	1092	1767	1719
Russian Federation	Prodn.	1079	1074	1609	2112	2225
	Yield	1039	1029	1473	1196	1294
	Area	15	16	22	49	34
Serbia	Prodn.	36	42	51	138	87
	Yield	2364	2540	2295	2838	2565
	Area	121	127	152	154	147
Slovakia	Prodn.	322	432	450	485	422
	Yield	2655	3402	2954	3148	2872
	Area	2	3	3	3	3
Slovenia	Prodn.	4	9	9	8	9
	Yield	2233	2718	2616	2253	2908
	Area	78	68	84	77	74
South Africa	Prodn.	93	105	93	104	95

Country	Unit	2015	2016	2017	2018	2019
Spain	Yield	1192	1542	1113	1350	1284
	Area	71	91	96	79	70
	Prodn.	149	225	154	180	145
Sri Lanka	Yield	2100	2462	1604	2292	2060
	Area	0.2	0.2	0.1	0.2	0.1
	Prodn.	0.2	0.2	0.2	0.2	0.2
Sweden	Yield	1000	1467	1583	917	1875
	Area	95	93	114	97	105
	Prodn.	359	268	363	218	382
Switzerland	Yield	3779	2892	3175	2234	3620
	Area	23	21	20	23	23
	Prodn.	87	72	78	77	68
Tunisia	Yield	3713	3427	3801	3397	2989
	Area	5	5	5	6	6
	Prodn.	4	4	4	4	4
Turkey	Yield	713	714	714	716	715
	Area	35	35	17	38	53
	Prodn.	120	125	60	125	180
Ukraine	Yield	3441	3528	3636	3303	3428
	Area	730	494	825	1092	1328
	Prodn.	1781	1189	2226	2784	3320
United Kingdom of Great Britain and Northern Ireland	Yield	2440	2409	2697	2550	2501
	Area	652	579	562	583	530
	Prodn.	2542	1775	2167	2012	1752
United States of America	Yield	3899	3066	3856	3451	3306
	Area	710	727	853	828	814
	Prodn.	1318	1449	1421	1677	1582
Uruguay	Yield	1856	1994	1666	2026	1945
	Area	26	26	53	51	55
	Prodn.	41	41	52	52	91
Uzbekistan	Yield	1561	1577	981	1020	1649
	Area	2	2	2	2	2
	Prodn.	1	1	1	1	1
Africa	Yield	698	655	596	549	508
	Area	131	116	128	121	120
	Prodn.	180	181	165	175	169
Americas	Yield	1374	1563	1284	1443	1411
	Area	9485	9438	10531	10337	9486
	Prodn.	20355	21784	23314	22587	20791
Asia	Yield	2146	2308	2214	2185	2192
	Area	14036	13531	13959	13986	14014
	Prodn.	21435	21319	22698	23550	24419
	Yield	1527	1576	1626	1684	1742

Country	Unit	2015	2016	2017	2018	2019
Europe	Area	8586	8387	9110	10231	9141
	Prodn.	25300	22860	26646	25603	23420
	Yield	2947	2726	2925	2502	2562
Oceania	Area	2898	2091	2682	3172	2120
	Prodn.	3542	2777	4314	3894	2367
	Yield	1222	1328	1609	1228	1116
World	Area	35136	33562	36409	37846	34881
	Prodn.	70812	68921	77136	75809	71165
	Yield	2015	2054	2119	2003	2040

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

3.3 All India Area, Production and Yield of Rapeseed & Mustard

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Rapeseed-Mustard over Total Area under Oilseeds	% Area Covered under Irrigation(#)
2015-16	5746	6797	1183	22	80
2016-17	6074	7917	1304	23	NA
2017-18	5977	8430	1410	24	NA
2018-19	6124	9256	1511		NA
2019-20	6856	9124	1331		

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

(#) Provisional; NA: Not Available

3.4 State-wise Area, Production and Yield of Rapeseed & Mustard in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	1	5	3	4	2
	Prodn.	1	2	1	1	1
	Yield	1000	400	457	345	485
Arunachal Pradesh	Area	29	28	28	28	28
	Prodn.	32	29	29	29	29
	Yield	1089	1019	1019	1019	1019
Assam	Area	286	294	290	286	287
	Prodn.	200	189	185	184	177
	Yield	698	644	639	643	617
Bihar	Area	90	83	79	81	75
	Prodn.	94	98	99	104	89
	Yield	1053	1180	1245	1290	1187
Chhattisgarh	Area	43	51	44	42	39
	Prodn.	22	20	18	18	16
	Yield	517	388	415	419	416
Delhi	Area	4	4	4	4	4

State		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	5	5	5	5	5
	Yield	1260	1248	1260	1262	1261
	Area	190	201	221	195	173
Gujarat	Prod.	306	344	400	349	334
	Yield	1611	1711	1808	1784	1932
	Area	505	510	549	609	641
Haryana	Prod.	805	945	1108	1254	1150
	Yield	1594	1853	2018	2058	1793
	Area	9	9	8	9	9
Himachal Pradesh	Prod.	4	4	5	5	5
	Yield	517	506	546	550	570
	Area	51	48	47	47	45
Jammu & Kashmir	Prod.	31	25	38	54	41
	Yield	612	526	793	1149	899
	Area	194	273	305	237	291
Jharkhand	Prod.	136	199	218	165	231
	Yield	698	728	715	695	794
	Area	2	4	2	3	0
Karnataka	Prod.	0.3	1	0.3	1	0
	Yield	150	200	168	202	0
	Area	617	708	748	707	675
Madhya Pradesh	Prod.	666	920	976	1040	1038
	Yield	1079	1299	1305	1471	1538
	Area	10	10	8	6	12
Maharashtra	Prod.	3	3	2	2	4
	Yield	300	358	286	367	330
	Area	29	29	29	30	26
Manipur	Prod.	25	25	25	25	21
	Yield	846	855	856	840	840
	Area	10	10	10	10	10
Meghalaya	Prod.	10	9	9	9	9
	Yield	967	934	935	936	936
	Area	1	0.3	0.4	1	1
Mizoram	Prod.	1	0.3	0.4	0.4	0.4
	Yield	934	1003	1002	777	714
	Area	28	27	27	27	27
Nagaland	Prod.	28	28	28	28	28
	Yield	1011	1013	1012	1012	1012
	Area	7	10	9	6	7
Odisha	Prod.	2	3	3	2	2
	Yield	205	345	326	275	293
	Area	31	32	31	31	31
Punjab	Prod.	42	45	46	46	46

State		2015-16	2016-17	2017-18	2018-19	2019-20
Rajasthan	Yield	1348	1413	1498	1524	1482
	Area	2532	2564	2210	2372	3076
	Prod.	3258	3645	3541	4053	4202
	Yield	1287	1422	1602	1709	1366
Sikkim	Area	4	4	3	3	3
	Prod.	3	3	3	3	3
	Yield	852	866	875	876	878
Tamil Nadu	Area	0.4	0.2	0.3	0.3	0.1
	Prod.	0.1	0.04	0.1	0.1	0.03
	Yield	229	200	232	232	233
Telangana	Area	1	3	3	4	1
	Prod.	2	5	5	8	2
	Yield	2000	1667	1594	1940	1706
Tripura	Area	6	8	8	8	8
	Prod.	5	6	6	6	7
	Yield	805	825	830	831	845
Uttar Pradesh	Area	593	689	679	753	759
	Prod.	603	858	945	1117	957
	Yield	1017	1245	1392	1483	1260
Uttarakhand	Area	16	13	16	17	15
	Prod.	16	11	13	16	15
	Yield	979	846	794	939	967
West Bengal	Area	458	459	615	606	610
	Prod.	499	495	723	734	712
	Yield	1090	1077	1175	1212	1167
India	Area	5746	6074	5977	6124	6856
	Prod.	6797	7917	8430	9256	9124
	Yield	1183	1304	1410	1511	1331

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

3.5 District-wise Area, Production and Yield of Rapeseed & Mustard in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Andaman & Nicobar Islands						
North & Middle Andaman	Area	0.005	0.004	-	0	
	Prod.	0.001	0	-	0.001	
	Yield	200	0	-	0	
South Andamans	Area	0.001	0.001	-	-	
	Prod.	0.001	0.001	-	-	
	Yield	1000	1000	-	-	
Andhra Pradesh						
Guntur	Area	0.03	0.1	0.1	0.1	0.1
	Prod.	0.001	0.04	0.04	0.01	0.002

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Kadapa	Yield	30	408	462	51	31
	Area	-	0.01	-	-	-
	Prod.	-	0.003	-	-	-
Krishna	Yield	-	500	-	-	-
	Area	0.5	0.8	0.7	0.3	0.2
	Prod.	0.2	0.3	0.1	0.1	0.1
Kurnool	Yield	323	375	222	259	376
	Area	0.8	4.0	2.2	4.1	1.6
	Prod.	0.6	1.7	1.2	1.5	0.8
Prakasam	Yield	704	423	527	357	515
	Area	0.1	0.04	0.01	0.01	0.01
	Prod.	0.05	0.002	0.002	0.003	0.002
SPSR Nellore	Yield	540	50	400	333	400
	Area	-	0.1	-	-	0.01
	Prod.	-	0.03	-	-	0.003
West Godavari	Yield	-	414	-	-	429
	Area	-	-	0.02	0.02	0.01
	Prod.	-	-	0.01	0.01	0.01
Arunachal Pradesh	Yield	-	-	417	458	500
	Area	-	0.2	0.2	0.2	
	Prod.	-	0.2	0.2	0.2	
Anjaw	Yield	-	1235	1209	1209	
	Area	-	4	4	4	
	Prod.	-	3	3	4	
Changlang	Yield	-	792	792	840	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.1	0.1	
Dibang Valley	Yield	-	1811	1811	1811	
	Area	-	1	1	1	
	Prod.	-	1	1	1	
East Kameng	Yield	-	1365	1360	1360	
	Area	-	3	3	3	
	Prod.	-	3	3	2	
East Siang	Yield	-	1114	1114	900	
	Area	-	-	-	0.4	
	Prod.	-	-	-	0.5	
Kamle	Yield	-	-	-	1300	
	Area	-	0.03	0.03	0.03	
	Prod.	-	0.03	0.03	0.03	
Kra Daadi	Yield	-	893	893	893	
	Area	-	0.02	0.02	0.02	
	Prod.	-	0.02	0.02	0.02	
Kurung Kumey	Area	-	0.02	0.02	0.02	
	Prod.	-	0.02	0.02	0.02	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Lohit	Yield	-	875	875	875	
	Area	-	4	4	4	
	Prod.	-	4	4	4	
Longding	Yield	-	950	950	950	
	Area	-	0.2	0.2	0.2	
	Prod.	-	0.2	0.2	0.2	
Lower Dibang Valley	Yield	-	1005	1004	1004	
	Area	-	4	4	4	
	Prod.	-	4	4	4	
Lower Siang	Yield	-	1038	1038	1038	
	Area	-	-	-	1	
	Prod.	-	-	-	2	
Lower Subansiri	Yield	-	-	-	2405	
	Area	-	1	1	1	
	Prod.	-	1	1	1	
Namsai	Yield	-	1333	1329	1334	
	Area	-	5	5	5	
	Prod.	-	5	5	5	
Papum Pare	Yield	-	851	851	851	
	Area	-	1	1	1	
	Prod.	-	2	2	2	
Siang	Yield	-	1466	1462	1462	
	Area	-	2	2	2	
	Prod.	-	2	2	2	
Tirap	Yield	-	906	907	907	
	Area	-	0.2	0.2	0.2	
	Prod.	-	0.3	0.3	0.3	
Upper Siang	Yield	-	1564	1528	1528	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.1	0.1	
Upper Subansiri	Yield	-	1507	1440	1440	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.2	0.2	0.2	
West Kameng	Yield	-	1535	1488	1577	
	Area	-	0.2	0.2	0.2	
	Prod.	-	0.3	0.4	0.4	
West Siang	Yield	-	1824	1778	1778	
	Area	-	1	1	1	
	Prod.	-	2	2	1	
Assam	Yield	-	1382	1379	705	
	Area	10	11	11	11	
Baksa	Prod.	6	6	6	7	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Barpeta	Yield	569	570	602	630	
	Area	18	18	19	19	
	Prodn.	12	12	13	12	
Bongaigaon	Yield	679	669	693	641	
	Area	7	7	7	7	
	Prodn.	3	4	4	4	
Cachar	Yield	464	516	516	541	
	Area	2	2	2	2	
	Prodn.	0.5	1	1	1	
Chinrang	Yield	295	393	429	562	
	Area	12	13	14	14	
	Prodn.	7	8	8	7	
Darrang	Yield	631	624	589	484	
	Area	15	16	15	13	
	Prodn.	9	9	9	9	
Dhemaji	Yield	628	538	563	641	
	Area	17	17	16	16	
	Prodn.	21	12	10	9	
Dhubri	Yield	1248	714	603	559	
	Area	16	16	16	16	
	Prodn.	13	12	12	12	
Dibrugarh	Yield	803	733	759	781	
	Area	3	2	3	2	
	Prodn.	2	2	3	2	
Dima Hasaq	Yield	856	998	991	834	
	Area	3	3	3	3	
	Prodn.	2	3	3	3	
Goalpara	Yield	587	954	1062	952	
	Area	10	7	8	8	
	Prodn.	7	3	4	3	
Golaghat	Yield	698	432	517	393	
	Area	9	9	8	6	
	Prodn.	4	6	5	3	
Halakandi	Yield	477	662	639	545	
	Area	0.2	0.3	0.2	0.2	
	Prodn.	0.1	0.1	0.1	0.1	
Jorhat	Yield	355	340	312	641	
	Area	10	10	11	10	
	Prodn.	7	6	6	8	
Kamrup	Yield	657	612	592	818	
	Area	11	12	12	12	
	Prodn.	8	5	6	7	
	Yield	772	381	466	557	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Kamrup Metro	Area	2	2	1	1	
	Prod.	1	1	1	1	
	Yield	698	540	639	566	
Karbi Anglong	Area	20	22	24	24	
	Prod.	9	10	9	14	
	Yield	473	470	366	576	
Karimganj	Area	0.2	0.2	0.1	0.2	
	Prod.	0.1	0.2	0.1	0.1	
	Yield	377	625	638	710	
Kokrajhar	Area	26	24	24	23	
	Prod.	17	17	16	17	
	Yield	641	720	663	734	
Lakhimpur	Area	25	24	25	24	
	Prod.	22	21	19	16	
	Yield	858	856	764	643	
Marigaon	Area	11	11	10	10	
	Prod.	6	6	8	6	
	Yield	514	559	780	577	
Nagaon	Area	15	16	15	17	
	Prod.	12	11	13	12	
	Yield	830	703	839	730	
Nalbari	Area	9	9	9	9	
	Prod.	7	7	7	7	
	Yield	790	771	801	821	
Sivasagar	Area	2	3	3	2	
	Prod.	1	2	2	1	
	Yield	584	541	480	451	
Sontipur	Area	20	22	20	20	
	Prod.	12	15	14	14	
	Yield	586	684	676	707	
Tinsukia	Area	8	10	8	9	
	Prod.	5	5	4	5	
	Yield	709	519	526	574	
Udalguri	Area	6	7	7	7	
	Prod.	4	5	5	4	
	Yield	685	728	684	633	
Bihar						
Araria	Area	0.1	1	0.1	0.1	
	Prod.	0.1	1	0.1	0.1	
	Yield	812	841	966	1159	
Arwal	Area	0.3	0.3	0.3	0.5	0.4
	Prod.	0.3	0.3	0.3	0.6	0.3
	Yield	945	1014	933	1306	961

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Aurangabad	Area	2	2	2	2	2
	Prod.	1	2	2	2	1
	Yield	572	691	1004	965	610
Banka	Area	0.4	1	1	0.4	0.4
	Prod.	0.3	1	1	1	0.4
	Yield	910	1828	1247	1496	906
Begusarai	Area	10	8	8	8	7
	Prod.	12	11	8	9	9
	Yield	1290	1336	997	1179	1290
Bhagalpur	Area	2	2	2	2	2
	Prod.	2	3	1	2	3
	Yield	977	1081	795	1123	1497
Bhojpur	Area	1	1	1	2	1
	Prod.	1	1	2	3	1
	Yield	1336	1745	1412	1240	771
Buxar	Area	2	2	2	2	2
	Prod.	2	2	2	2	2
	Yield	1204	1114	1131	1359	1182
Darbhanga	Area	2	2	2	2	1
	Prod.	1	1	2	1	1
	Yield	566	625	832	603	1128
Gaya	Area	6	1	1	1	1
	Prod.	5	1	1	1	1
	Yield	949	1159	1104	1614	643
Gopalganj	Area	3	2	2	2	3
	Prod.	4	3	3	2	4
	Yield	1402	1167	1326	1052	1432
Jamui	Area	4	4	2	2	1
	Prod.	4	3	1	1	1
	Yield	1165	876	691	640	587
Jehanabad	Area	0.2	0.2	0.1	0.2	0.2
	Prod.	0.2	0.2	0.3	0.3	0.1
	Yield	854	974	2091	1607	697
Kaimur (Bhabua)	Area	2	2	2	2	
	Prod.	2	1	2	2	
	Yield	1017	749	1274	900	
Katihar	Area	3	4	4	6	2
	Prod.	3	6	9	11	3
	Yield	924	1414	2223	1972	1572
Khagaria	Area	3	3	3	3	3
	Prod.	3	3	3	5	4
	Yield	928	1095	1078	1577	1240
Kishanganj	Area	1	1	1	1	1

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	1	1	2	1	2
	Yield	490	1033	1413	785	1381
	Area	3	3	3	3	3
Lakhisarai	Prod.	3	4	3	4	3
	Yield	979	1592	1306	1426	1104
	Area	2	2	1	1	1
Madhepura	Prod.	2	2	2	1	1
	Yield	1089	941	1425	1238	966
	Area	1	0.3	1	0.4	0.4
Madhubani	Prod.	1	0.1	1	0.4	1
	Yield	668	506	869	989	1158
	Area	1	1	1	0.5	0.5
Munger	Prod.	1	0.5	1	1	0.5
	Yield	1639	964	1223	1064	909
	Area	5	5	5	5	5
Muzaffarpur	Prod.	4	4	5	6	4
	Yield	794	789	1067	1259	891
	Area	3	4	2	4	4
Nalanda	Prod.	5	6	3	6	2
	Yield	1835	1452	1398	1542	551
	Area	1	0.4	0.4	0.4	0.4
Nawada	Prod.	1	0.3	0.4	0.4	0.4
	Yield	1054	748	919	1017	1016
	Area	7	3	3	3	3
Pashchim Champaran	Prod.	5	6	3	4	2
	Yield	774	1837	870	1316	768
	Area	3	3	4	2	4
Patna	Prod.	3	4	4	3	2
	Yield	1001	1397	1161	1049	442
	Area	2	2	2	2	2
Purbi Champaran	Prod.	1	1	2	3	4
	Yield	505	637	1093	1318	1861
	Area	0.2	1	0.2	0.5	0.4
Purnia	Prod.	0.2	2	0.2	1	0.4
	Yield	817	2215	1093	1035	1138
	Area	2	2	2	2	2
Rohtas	Prod.	2	3	3	4	3
	Yield	1033	1119	1097	1624	1465
	Area	1	1	2	1	1
Saharsa	Prod.	1	1	1	1	2
	Yield	994	494	921	963	1356
	Area	8	7	8	8	7
Samastipur	Prod.	10	10	11	10	13

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Saran	Yield	1244	1363	1447	1255	1927
	Area	3	3	4	3	3
	Prod.	4	5	5	5	4
Sheikhpura	Yield	1132	1633	1419	1428	1382
	Area	0.5	0.5	1	1	1
	Prod.	0.3	0.4	1	0	1
Sheohar	Yield	683	821	1034	635	934
	Area	0.2	0.4	0.4	0.4	0.5
	Prod.	0.1	0.3	0.3	0.3	0.4
Sitamarhi	Yield	724	860	783	838	775
	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
Siwan	Yield	1156	1164	1151	1041	1266
	Area	2	2	2	2	2
	Prod.	2	3	3	3	3
Supaul	Yield	1103	1244	1451	1520	1357
	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
Vaishali	Yield	1083	883	813	906	1143
	Area	3	3	3	3	3
	Prod.	5	3	6	5	5
Chhattisgarh						
Balod	Yield	1483	1009	2223	1817	1694
	Area	1	1	1	1	1
	Prod.	0.5	0.3	0.4	0.5	0.4
Baloda Bazar	Yield	449	450	452	440	390
	Area	1	0.3	0.3	0.3	1
	Prod.	0.3	0.1	0.1	0.1	0.4
Balrampur	Yield	490	421	361	400	362
	Area	9	9	8	9	24
	Prod.	5	3	4	4	11
Bastar	Yield	607	362	466	503	453
	Area	1	1	1	1	-
	Prod.	1	1	1	1	-
Bemetara	Yield	896	696	610	659	-
	Area	0.1	0.1	0.04	0.1	0.1
	Prod.	0.05	0.04	0.02	0.02	0.02
Bijapur	Yield	484	449	477	451	393
	Area	0.01	0.01	0.01	0.01	0.5
	Prod.	0.01	0.004	0.003	0.002	0.2
Bilaspur	Yield	500	500	429	333	351
	Area	2	2	1	1	1
	Prod.	1	1	1	0.4	0.2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Dantewada	Yield	521	379	375	445	364
	Area	1	1	1	1	2
	Prod.	1	0.4	0.2	0.2	1
Dhamtari	Yield	497	492	261	373	445
	Area	1	1	2	1	1
	Prod.	0.4	1	1	1	0
Durg	Yield	578	456	452	505	468
	Area	1	1	1	2	2
	Prod.	1	0.4	0.4	1	0.3
Gariyaband	Yield	702	553	364	441	128
	Area	0.2	0.05	0.04	0.04	2
	Prod.	0.1	0.02	0.01	0.02	1
Janjgir-Champa	Yield	539	429	350	395	373
	Area	1	1	1	0.4	5
	Prod.	1	0.4	0.2	0.2	2
Jashpur	Yield	561	442	405	480	425
	Area	4	4	4	4	10
	Prod.	2	2	2	2	4
Kabirdham	Yield	506	435	423	491	383
	Area	2	1	2	1	5
	Prod.	1	1	1	0.3	3
Kanker	Yield	430	421	369	325	558
	Area	1	1	1	0.3	5
	Prod.	0.5	0.3	0.3	0.1	2
Kondagaon	Yield	483	380	376	461	381
	Area	0.2	0.1	0.1	0.03	9
	Prod.	0.1	0.1	0.04	0.02	6
Korba	Yield	653	549	556	630	630
	Area	2	2	2	1	3
	Prod.	1	1	1	1	1
Korea	Yield	360	379	375	376	340
	Area	3	3	3	3	18
	Prod.	1	1	1	1	8
Mahasamund	Yield	439	406	394	432	425
	Area	0.1	0.1	0.1	0.1	0.3
	Prod.	0.1	0.04	0.03	0.1	0.1
Mungeli	Yield	573	467	382	496	438
	Area	0.03	0.06	0.01	0.01	2
	Prod.	0.02	0.03	0.001	0.002	0.4
Narayanpur	Yield	533	460	200	400	212
	Area	0.1	0.1	0.1	0.1	3
	Prod.	0.04	0.05	0.03	0.04	2
	Yield	382	625	564	606	494

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Raigarh	Area	2	1	1	1	14
	Prod.	1	1	1	1	5
	Yield	608	479	474	479	389
Raipur	Area	1	1	1	1	3
	Prod.	1	1	1	1	1
	Yield	623	526	451	533	364
Rajnandgaon	Area	2	2	1	2	0.4
	Prod.	1	1	1	1	0.2
	Yield	473	407	503	515	391
Sukma	Area	0.3	0.3	0.2	0.2	0.1
	Prod.	0.1	0.1	0.1	0.1	0.0
	Yield	498	288	422	468	423
Surajpur	Area	4	5	4	4	10
	Prod.	2	2	2	2	6
	Yield	538	425	496	503	556
Surguja	Area	7	5	6	5	11
	Prod.	5	3	3	3	5
	Yield	685	464	473	545	482
Dadra & Nagar Haveli						
Dadra & Nagar Haveli	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.003	0.01	0.003	
	Yield	909	600	833	600	
Gujarat						
Ahmedabad	Area	1	1	0.5	0.4	0.001
	Prod.	1	1	1	1	0.002
	Yield	1454	1770	1808	1783	1932
Anand	Area	-	-	-	1	0
	Prod.	-	-	-	2	0
	Yield	-	-	-	1784	1932
Amreli	Area	0.002	-	-	-	-
	Prod.	0.003	-	-	-	-
	Yield	1500	-	-	-	-
Anand	Area	1	1	1	-	-
	Prod.	2	2	2	-	-
	Yield	1454	1544	1808	-	-
Aravali	Area	1	2	1	1	0.005
	Prod.	1	3	2	2	0.008
	Yield	1343	1555	1605	1616	1745
Banas Kanatha	Area	121	130	158	140	1
	Prod.	169	236	297	257	3
	Yield	1400	1815	1886	1834	2005
Bharuch	Area	0.03	1	0.1	0.02	-
	Prod.	0.04	1	0.3	0.04	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Bhavnagar	Yield	1440	1770	1807	1800	-
	Area	0.03	0.02	0.01	-	-
	Prod.	0.04	0.04	0.02	-	-
Botad	Yield	1448	1762	1818	-	-
	Area	-	-	0.02	-	-
	Prod.	-	-	0.03	-	-
Chhotaudepur	Yield	-	-	1800	-	-
	Area	0.01	-	0.003	-	-
	Prod.	0.02	-	0.01	-	-
Devbhumi Dwaraka	Yield	1417	-	1667	-	-
	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
Dohad	Yield	-	-	-	-	-
	Area	0.2	0.3	0.2	0.02	-
	Prod.	0.3	1	0.3	0.04	-
Gandhinagar	Yield	1452	1772	1807	1762	-
	Area	1	1	1	1	0.01
	Prod.	2	2	2	1	0.01
Gir Somnath	Yield	1668	1758	1665	1732	1853
	Area	-	0.02	0.01	0.003	-
	Prod.	-	0.04	0.01	0.01	-
Jamnagar	Yield	-	1750	1833	1667	-
	Area	-	0.2	0.03	-	-
	Prod.	-	0.3	0.1	-	-
Junagadh	Yield	-	1769	1813	-	-
	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
Kachchh	Yield	-	-	-	-	-
	Area	10	10	7	8	0.01
	Prod.	17	19	13	15	0.01
Kheda	Yield	1810	1815	1857	1792	1932
	Area	1	1	1	1	0.1
	Prod.	1	1	1	1	0.2
Mahesana	Yield	1410	1367	1807	1784	2010
	Area	21	23	20	14	0.1
	Prod.	33	40	33	24	0.2
Mahisagar	Yield	1573	1727	1698	1719	1932
	Area	0.2	0.4	0.1	0.1	-
	Prod.	0.3	0.6	0.1	0.2	-
Morbi	Yield	1452	1770	1814	1781	-
	Area	1	0.4	0.3	1.2	0.01
	Prod.	1	0.7	0.4	1.6	0.01
	Yield	1454	1772	1620	1388	1269

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Narmada	Area	0.1	0.1	0.01	-	-
	Prod.	0.2	0.1	0.01	-	-
	Yield	1455	1774	1750	-	-
Navsari	Area	0.02	0.01	-	-	-
	Prod.	0.02	0.02	-	-	-
	Yield	1467	1800	-	-	-
Panch Mahals	Area	0.2	0.3	0.2	0.1	0.001
	Prod.	0.3	0.5	0.3	0.2	0.002
	Yield	1455	1770	1811	1783	1932
Patan	Area	29	28	31	24	0
	Prod.	43	45	45	38	0
	Yield	1472	1628	1482	1555	1441
Rajkot	Area	0.04	0.02	0.02	1	-
	Prod.	0.05	0.03	0.03	2	-
	Yield	1457	1765	1789	1784	-
Sabar Kantha	Area	1	1	1	-	0.01
	Prod.	1	2	1	-	0.01
	Yield	1176	1617	1808	-	1932
Surat	Area	0.4	0.1	0.03	0.01	0.001
	Prod.	1	0.2	0.1	0.03	0.001
	Yield	1454	1773	1813	1786	1932
Surendranagar	Area	1	1	1	2	0.01
	Prod.	1	1	1	4	0.01
	Yield	1454	1771	1609	1783	1932
Vadodara	Area	0.1	0.1	0.1	0.1	-
	Prod.	0.1	0.1	0.2	0.1	-
	Yield	1456	1771	1805	1791	-
Valsad	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Haryana						
Ambala	Area	1	1	2	3	
	Prod.	2	1	4	6	
	Yield	2000	1400	2111	1935	
Bhiwani	Area	154	160	120	130	
	Prod.	225	273	222	237	
	Yield	1461	1705	1850	1823	
Charki Dadri	Area			53	54	
	Prod.			100	113	
	Yield			1898	2093	
Faridabad	Area	0	0.2	0.4	1	
	Prod.	0	0.4	1	1	
	Yield	0	2000	2000	1667	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Fatehabad	Area	14	14	15	18	
	Prod.	19	23	28	38	
	Yield	1357	1645	1925	2147	
Gurgaon	Area	10	10	15	15	
	Prod.	17	19	34	33	
	Yield	1700	2000	2329	2230	
Hisar	Area	68	65	68	76	
	Prod.	123	120	149	163	
	Yield	1809	1858	2196	2145	
Jhajjar	Area	24	22	29	31	
	Prod.	38	52	62	64	
	Yield	1583	2329	2123	2051	
Jind	Area	4	3	5	6	
	Prod.	7	6	10	14	
	Yield	1750	1875	2102	2333	
Kaithal	Area	1	1	1	1	
	Prod.	2	1	2	2	
	Yield	2000	1500	2556	1538	
Karnal	Area	1	2	2	2	
	Prod.	2	3	3	4	
	Yield	2000	1875	2067	2000	
Kurukshetra	Area	2	2	2	2	
	Prod.	3	3	3	4	
	Yield	1500	1556	1778	1818	
Mahendergarh	Area	82	83	81	94	
	Prod.	129	163	152	193	
	Yield	1573	1958	1884	2053	
Mewat	Area	23	21	24	26	
	Prod.	37	40	53	60	
	Yield	1609	1888	2156	2281	
Palwal	Area	2	2	2	3	
	Prod.	3	3	4	6	
	Yield	1500	1750	2176	2308	
Panchkula	Area	0	0.4	0.4	1	
	Prod.	0	0.3	1	1	
	Yield	0	750	2000	833	
Panipat	Area	1	0.4	1	1	
	Prod.	2	1	1	3	
	Yield	2000	1750	2000	2500	
Rewari	Area	63	64	66	72	
	Prod.	116	142	152	165	
	Yield	1841	2243	2296	2292	
Rohtak	Area	11	10	12	12	

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Sirsa	Prod.	14	12	23	22	
	Yield	1273	1247	1941	1864	
	Area	45	42	48	58	
	Prod.	77	66	95	122	
	Yield	1711	1579	1994	2114	
	Area	1	1	1	2	
Sonipat	Prod.	1	2	2	3	
	Yield	1000	1615	1643	1875	
	Area	2	2	2	2	
Yamunanagar	Prod.	3	2	3	0	
	Yield	1500	1200	1571	0	
	Area					
Himachal Pradesh						
Bilaspur	Area	0.1	0.1	0.1	0.2	
	Prod.	0.02	0.02	0.1	0.1	
	Yield	132	133	482	476	
Chamba	Area	2	3	2	2	
	Prod.	1	1	1	1	
	Yield	488	267	494	483	
Hamirpur	Area	0.2	0.2	0.2	0.1	
	Prod.	0.02	0.02	0.1	0.02	
	Yield	66	66	324	318	
Kangra	Area	2	1	2	2	
	Prod.	1	0.3	1	2	
	Yield	585	243	642	636	
Kinnaur	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Kullu	Area	1	1	1	0.2	
	Prod.	0.4	0.1	0.4	0.1	
	Yield	450	140	456	457	
Lahul and spiti	Area	0.1	0.1	0.1	0.01	
	Prod.	0.05	0.1	0.05	0.01	
	Yield	475	1627	475	417	
Mandi	Area	0.4	0.3	0.4	0.3	
	Prod.	0.2	0.0	0.2	0.2	
	Yield	558	30	548	533	
Shimla	Area	0.4	0.2	0.4	0.3	
	Prod.	0.2	0.0	0.2	0.1	
	Yield	487	67	487	490	
Sirmaur	Area	1	1	1	1	
	Prod.	0.4	0.02	0.4	1	
	Yield	501	26	501	497	
Solan	Area	0.3	0.2	0.3	1	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Una	Prod.	0.2	0.03	0.2	0.3	
	Yield	614	148	593	586	
	Area	2	1	2	1	
	Prod.	1	0.4	1	1	
	Yield	654	541	613	609	
Jammu & Kashmir						
Anantnag	Area	14	14	13	13	
	Prod.	11	6	16	13	
	Yield	795	460	1236	1003	
Bandgam	Area	6	3	5	5	
	Prod.	4	2	4	5	
	Yield	644	587	773	1083	
Bandipora	Area	2	2	2	2	
	Prod.	1	1	2	4	
	Yield	576	930	1027	2462	
Baramulla	Area	0.2	0.2	0.1	0.1	
	Prod.	0.2	0.2	0.1	0.1	
	Yield	660	1199	872	1282	
Doda	Area	1	1	1	1	
	Prod.	1	0.3	0.4	1	
	Yield	364	329	396	646	
Ganderbal	Area	3	2	2	2	
	Prod.	3	2	2	2	
	Yield	1020	959	1086	1066	
Jammu	Area	1	1	0.1	1	
	Prod.	1	1	0.1	1	
	Yield	642	884	1178	1092	
Kathua	Area	3	2	3	3	
	Prod.	1	1	1	2	
	Yield	300	285	304	681	
Kishtwar	Area	0.01	0.03	0.03	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	417	360	440	583	
Kulgam	Area	7	7	7	7	
	Prod.	3	3	4	11	
	Yield	451	484	552	1547	
Leh Ladakh	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	1127	1137	1133	1129	
Poonch	Area	0.3	0.1	0.2	0.2	
	Prod.	0.1	0.1	0.4	0.1	
	Yield	441	379	2791	597	
Pulwama	Area	9	10	10	10	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	4	6	6	14	
	Yield	515	583	562	1421	
	Area	1	2	1	1	
Rajauri	Prodn.	1	0.4	0.3	0.2	
	Yield	440	270	430	352	
	Area	1	-	0.6	0.1	
Ramban	Prodn.	1	-	0.4	0.1	
	Yield	626	-	683	597	
	Area	0.1	1	1	1	
Reasi	Prodn.	0.05	0.4	0.4	0.4	
	Yield	439	375	430	601	
	Area	0.5	0.7	0.8	0.4	
Samba	Prodn.	0.2	0.1	0.3	0.2	
	Yield	439	132	430	602	
	Area	0.1	0.3	0.3	0.3	
Shopian	Prodn.	0.1	0.2	0.3	0.3	
	Yield	659	843	918	900	
	Area	0.2	0.2	0.2	0.2	
Srinagar	Prodn.	0.1	0.2	0.2	0.3	
	Yield	658	1000	868	1283	
	Area	2	1	1	2	
Udhampur	Prodn.	1	0.4	0.2	0.5	
	Yield	434	288	196	231	
	Jharkhand					
Bokaro	Area	0.01	0.04	10	8	10
	Prodn.	0.004	0.04	6	4	6
	Yield	667	925	581	550	610
Chatra	Area	0.3	0.3	14	14	14
	Prodn.	0.3	0.3	8	9	9
	Yield	1093	842	580	650	670
Deoghra	Area	0.4	1	11	3	12
	Prodn.	0.3	1	9	3	11
	Yield	794	1394	800	900	900
Dhanbad	Area	3	8	8	3	8
	Prodn.	3	7	7	3	7
	Yield	900	900	950	800	900
Dumka	Area	1	1	18	15	19
	Prodn.	2	1	12	11	15
	Yield	1688	776	650	765	765
East Singhbhum	Area	0.1	0.04	11	8	9
	Prodn.	0.1	0.04	8	4	5
	Yield	574	884	750	580	580
Garhwa	Area	1	5	18	17	17

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	1	7	10	6	6
	Yield	932	1298	560	370	378
	Area	5	10	10	5	10
Giridih	Prod.	3	6	7	3	5
	Yield	602	656	670	670	510
	Area	10	2	15	12	14
Godda	Prod.	7	1	0	0	12
	Yield	747	727	0	0	880
	Area	0.4	12	11	10	15
Gumla	Prod.	0.3	15	11	9	14
	Yield	904	1250	932	905	968
	Area	1	1	15	10	15
Hazaribagh	Prod.	1	1	13	9	13
	Yield	796	598	900	900	900
	Area	0.2	0.2	10	5	12
Jamtara	Prod.	0.1	0.2	9	3	10
	Yield	626	845	900	600	800
	Area	2	1	13	10	12
Khunti	Prod.	2	1	8	5	6
	Yield	1020	915	600	480	480
	Area	0.1	0.1	10	8	11
Koderma	Prod.	0.1	0.1	9	8	10
	Yield	735	936	900	900	900
	Area	1	1	15	16	15
Latehar	Prod.	1	1	13	14	13
	Yield	560	874	879	878	870
	Area	0.3	0.3	12	8	7
Lohardaga	Prod.	0.4	0.4	10	7	6
	Yield	1165	1239	873	873	880
	Area	2	2	12	111	13
Pakur	Prod.	3	3	11	11	12
	Yield	1599	1418	950	95	950
	Area	9	14	17	17	16
Palamu	Prod.	8	11	9	14	8
	Yield	877	804	514	820	520
	Area	6	0.05	9	7	10
Ramgarh	Prod.	6	0.1	8	6	9
	Yield	850	1356	900	900	900
	Area	0.2	11	13	9	12
Ranchi	Prod.	0.1	9	9	9	9
	Yield	801	790	700	950	800
	Area	2	3	14	8	13
Sahebganj	Prod.	1	3	7	5	14

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Saraikelakharsawan	Yield	792	915	530	639	1064
	Area	0.3	0.02	14	10	9
	Prod.	0.3	0.02	18	8	12
Simdega	Yield	891	957	1300	850	1300
	Area	0.02	0.1	13	13	14
	Prod.	0.03	0.1	8	8	9
West Singhbhum	Yield	1778	911	625	625	630
	Area	1	0.05	13	10	7
	Prod.	1	0.05	7	5	4
Karnataka	Yield	607	938	590	518	546
	Area	0.2	0.2	0.2	-	4
	Prod.	0.05	0.03	0.03	-	1
BangaloreRural	Yield	196	156	142	-	250
	Area	0.01	0.01	0.1	0.07	149
	Prod.	0.002	0.002	0.02	0.01	36
Belgaum	Yield	222	222	167	197	242
	Area	-	0.02	0.04	0.2	5
	Prod.	-	0.003	0.01	0.05	1
Bellary	Yield	-	176	171	200	200
	Area	0.2	0.2	0.1	0.002	21
	Prod.	0.04	0.03	0.01	0	5
Bengaluru Urban	Yield	217	209	175	0	238
	Area	0.01	0.2	0.1	0.02	3
	Prod.	0.002	0.04	0.01	0.003	1
Bidar	Yield	200	184	173	188	333
	Area	0.2	0.2	0.3	0.01	7
	Prod.	0.1	0.04	0.1	0.001	2
Chikballapur	Yield	297	229	225	200	286
	Area	0.02	0.04	0.02	-	-
	Prod.	0.004	0.01	0.003	-	-
Chikmagalur	Yield	222	179	150	-	-
	Area	0.01	-	0.002	0.001	-
	Prod.	0.002	-	0	0	-
Chitradurga	Yield	222	-	0	0	-
	Area	0.02	0.03	0.1	-	-
	Prod.	0.01	0.01	0.01	-	-
Davangere	Yield	217	200	167	-	-
	Area	0.002	0.01	0.001	0.001	-
	Prod.	0	0.002	0	0	-
Dharwad	Yield	0	222	0	0	-
	Area	0.02	0.04	0.03	0.002	3
	Prod.	0.01	0.01	0.01	0	1
Gadag	Area	0.02	0.04	0.03	0.002	3
	Prod.	0.01	0.01	0.01	0	1

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Gulbarga	Yield	238	182	167	0	333
	Area	-	-	-	0.001	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
Hassan	Area	0.2	0.01	0.1	0.01	-
	Prod.	0.03	0.001	0.01	0.001	-
	Yield	220	143	173	143	-
Haveri	Area	0.01	0.00	0.01	0.01	5
	Prod.	0.002	0.001	0.002	0.001	1
	Yield	182	333	222	200	200
Kolar	Area	0.2	0.2	0.2	0.01	4
	Prod.	0.03	0.03	0.04	0.002	1
	Yield	169	146	224	167	250
Koppala	Area	-	-	0.5	2	-
	Prod.	-	-	0.1	0.4	-
	Yield	-	-	166	199	-
Mandya	Area	0.002	-	-	0.004	-
	Prod.	0	-	-	0.001	-
	Yield	0	-	-	250	-
Raichur	Area	-	-	-	1	9
	Prod.	-	-	-	0.1	2
	Yield	-	-	-	198	222
Ramnagara	Area	0.4	0.4	0.3	0.002	-
	Prod.	0.1	0.1	0.0	0	-
	Yield	213	180	110	0	-
Tumkur	Area	0	3	0	0.02	7
	Prod.	0	1	0	0.003	2
	Yield	201	183	157	200	286
Yadgir	Area	-	-	-	0.1	-
	Prod.	-	-	-	0.01	-
	Yield	-	-	-	194	-
Madhya Pradesh						
Agar Malwa	Area	7	7	10	4	1
	Prod.	5	10	11	1	2
	Yield	714	1429	1100	352	1324
Alirajpur	Area	-	-	-	0.001	0.1
	Prod.	-	-	-	0.001	0.1
	Yield	-	-	-	1000	1129
Anuppur	Area	8	9	8	6	4
	Prod.	2	5	3	1	3
	Yield	250	556	435	233	741
Ashoknagar	Area	4	5	7	11	148
	Prod.	4	6	7	10	310

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Balaghat	Yield	1000	1200	1071	865	2090
	Area	8	27	20	2	2
	Prod.	7	25	6	1	3
Betul	Yield	875	926	305	495	1306
	Area	1	1	0.5	0.5	0.1
	Prod.	1	1	0.4	0.4	0.2
Bhind	Yield	1000	1058	786	1058	1577
	Area	129	146	168	233	2
	Prod.	169	226	353	494	4
Bhopal	Yield	1310	1548	2105	2123	1759
	Area	1	1	0.4	0.04	213
	Prod.	1	1	0.3	0.03	315
Burhanpur	Yield	1000	987	857	658	1477
	Area	-	-	-	0.001	0.02
	Prod.	-	-	-	0.001	0.03
Chhatarpur	Yield	-	-	-	1000	1458
	Area	15	14	12	18	22
	Prod.	7	14	13	10	21
Chhindwara	Yield	467	1000	1071	531	951
	Area	3	-	4	0.3	1
	Prod.	3	-	6	0.2	1
Damoh	Yield	1000	-	1700	633	2042
	Area	3	-	4	1	11
	Prod.	3	-	3	1	10
Datia	Yield	1000	-	800	680	903
	Area	15	12	16	14	39
	Prod.	13	15	15	8	85
Dewas	Yield	867	1250	925	577	2175
	Area	1	3	0.3	0.2	0.2
	Prod.	2	3	0.4	0.2	1
Dhar	Yield	2000	1000	1294	918	3400
	Area	2	-	1	0.04	0.1
	Prod.	2	-	1	0.03	0.1
Dindori	Yield	1000	-	926	775	1435
	Area	17	17	17	11	9
	Prod.	11	13	10	4	11
Guna	Yield	647	765	604	324	1168
	Area	10	6	9	14	4
	Prod.	14	7	9	15	3
Gwalior	Yield	1400	1167	1040	1070	701
	Area	23	45	41	52	0
	Prod.	27	62	40	46	0
	Yield	1174	1378	970	900	2022

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Harda	Area	1	-	3	0.3	1
	Prodn.	1	-	2	0.2	1
	Yield	1000	-	672	528	1039
Hoshangabad	Area	1	1	4	0.2	12
	Prodn.	1	1	4	0.1	16
	Yield	1000	1000	950	711	1327
Indore	Area	-	-	-	0.02	15
	Prodn.	-	-	-	0.01	13
	Yield	-	-	-	400	860
Jabalpur	Area	4	6	12	1	2
	Prodn.	4	7	9	1	3
	Yield	1000	1167	800	710	1406
Jhabua	Area	-	-	0.05	0.002	0.20
	Prodn.	-	-	0.06	0.001	0.29
	Yield	-	-	1200	500	1444
Katni	Area	3	6	6	2	4
	Prodn.	2	5	4	2	6
	Yield	667	833	644	726	1367
Khandwa	Area	-	-	-	0.08	7
	Prodn.	-	-	-	0.04	10
	Yield	-	-	-	533	1284
Khargone	Area	-	-	0.1	0.1	1
	Prodn.	-	-	0.1	0.05	1
	Yield	-	-	455	475	1177
Mandla	Area	17	17	17	6	0.04
	Prodn.	16	11	8	4	0.07
	Yield	941	647	492	606	1675
Mandsaur	Area	37	32	38	30	0.02
	Prodn.	35	45	51	18	0.01
	Yield	946	1406	1345	606	714
Morena	Area	128	139	145	145	4
	Prodn.	175	221	219	304	5
	Yield	1367	1590	1506	2092	1206
Narsinghpur	Area	1	-	3	0.03	1
	Prodn.	1	-	3	0.02	1
	Yield	1000	-	1192	793	1255
Neemuch	Area	18	21	20	15	0.1
	Prodn.	27	31	27	9	0.2
	Yield	1500	1476	1325	619	1246
Panna	Area	6	8	13	6	6
	Prodn.	4	6	11	3	7
	Yield	667	750	863	575	1025
Raisen	Area	1	-	0.3	0.04	32

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	1	-	0.2	0.02	32
	Yield	1000	-	714	667	1029
	Area	7	7	9	5	11
Rajgarh	Prod.	8	5	9	3	16
	Yield	1143	714	950	605	1507
	Area	8	10	9	4	
Ratlam	Prod.	12	15	9	5	
	Yield	1500	1500	994	1216	
	Area	16	14	15	7	17
Rewa	Prod.	10	11	14	4	18
	Yield	625	786	931	536	1055
	Area	4	-	4	1	1
Sagar	Prod.	3	-	3	0.4	1
	Yield	750	-	801	710	1098
	Area	4	5	7	6	8
Satna	Prod.	3	6	14	1	7
	Yield	750	1200	1853	243	911
	Area	-	-	0.2	0.2	47
Sehore	Prod.	-	-	0.3	0.1	74
	Yield	-	-	1130	787	1583
	Area	1	-	1	0.4	2
Seoni	Prod.	1	-	1	0.2	2
	Yield	1000	-	457	568	1131
	Area	5	9	9	2	3
Shahdol	Prod.	3	4	4	1	2
	Yield	600	444	480	324	696
	Area	4	4	4	0.3	
Shajapur	Prod.	4	4	4	0.2	
	Yield	1000	1000	1137	727	
	Area	33	39	17	43	5
Sheopur	Prod.	38	56	24	58	9
	Yield	1152	1436	1391	1333	1923
	Area	42	62	55	40	1
Shivpuri	Prod.	25	74	48	21	1
	Yield	595	1194	875	541	1667
	Area	6	7	9	2	5
Sidhi	Prod.	4	5	6	1	3
	Yield	667	714	740	339	691
	Area	12	10	10	8	15
Singrauli	Prod.	8	6	6	5	18
	Yield	667	600	600	710	1231
	Area	9	13	11	12	1
Tikamgarh	Prod.	6	13	9	5	1

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Ujjain	Yield	667	1000	776	389	1025
	Area	3	1	2	1	0.03
	Prod.	2	1	1	0.5	0.03
Umara	Yield	667	1000	828	559	967
	Area	3	7	6	3	8
	Prod.	2	6	4	1	3
Vidisha	Yield	667	857	712	424	414
	Area	-	-	0.4	1	9
	Prod.	-	-	0.4	1	18
Maharashtra	Yield	-	-	950	601	1989
	Area	-	0.01	0.2	-	-
	Prod.	-	0.002	0.1	-	-
Ahmednagar	Yield	-	154	425	-	-
	Area	-	0.1	-	0.05	-
	Prod.	-	0.04	-	0.088	-
Akola	Yield	-	400	-	1760	-
	Area	-	-	0.9	-	-
	Prod.	-	-	0.36	-	-
Amaravathi	Yield	-	-	400	-	-
	Area	-	0.9	0.1	0.01	-
	Prod.	-	0.2	0.023	0	-
Aurangabad	Yield	-	222	230	0	-
	Area	-	0.1	0.02	0.11	-
	Prod.	-	0.04	0.01	0.01	-
Beed	Yield	-	400	500	91	-
	Area	-	0.2	0.2	0.32	-
	Prod.	-	0.1	0.027	0.1	-
Bhandra	Yield	-	500	135	313	-
	Area	-	0.1	0.7	0.11	-
	Prod.	-	0.04	0.3	0.046	-
Buldhana	Yield	-	400	429	418	-
	Area	-	0.4	0.013	0.004	-
	Prod.	-	0.2	0.003	0.001	-
Chandarpur	Yield	-	500	231	250	-
	Area	-	0.8	0.8	0.41	-
	Prod.	-	0.4	0.2	0.1	-
Gadchiroli	Yield	-	500	250	244	-
	Area	-	0.1	0.1	0.114	-
	Prod.	-	0.02	0.027	0.043	-
Gondia	Yield	-	200	270	377	-
	Area	-	0.1	-	-	-
	Prod.	-	0.04	-	-	-
Hingoli	Area	-	0.1	-	-	-
	Prod.	-	0.04	-	-	-

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Jalgaon	Yield	-	400	-	-	
	Area	-	0.02	0.01	-	
	Prod.	-	0.01	0.01	-	
Jalna	Yield	-	500	1000	-	
	Area	-	0.2	0.1	-	
	Prod.	-	0.05	0.02	-	
Kolhapur	Yield	-	250	200	-	
	Area	-	0.1	-	-	
	Prod.	-	0.02	-	-	
Latur	Yield	-	200	-	-	
	Area	-	0.8	0.8	0.06	
	Prod.	-	0.2	0.2	0.019	
Nagpur	Yield	-	250	250	317	
	Area	-	0.4	0.2	0.11	
	Prod.	-	0.2	0.1	0.041	
Nanded	Yield	-	500	500	373	
	Area	-	1.3	0.009	0.03	
	Prod.	-	0.3	0.002	0.006	
Nandurbar	Yield	-	231	222	200	
	Area	-	1.9	1.5	0.71	
	Prod.	-	0.8	0.6	0.4	
Nasik	Yield	-	421	400	563	
	Area	-	0.1	0.1	0.01	
	Prod.	-	0	0.1	0.002	
Osmanabad	Yield	-	0	1000	200	
	Area	-	0.9	0.6	2.6	
	Prod.	-	0.4	0.1	0.8	
Palghar	Yield	-	444	167	308	
	Area	-	0.02	0.01	0.01	
	Prod.	-	0.01	0	0.007	
Parbhani	Yield	-	500	0	700	
	Area	-	0.02	-	0.14	
	Prod.	-	0.005	-	0.03	
Pune	Yield	-	250	-	214	
	Area	-	-	0.01	0.01	
	Prod.	-	-	0.004	0.001	
Ratnagiri	Yield	-	-	400	100	
	Area	-	-	0.03	-	
	Prod.	-	-	0.01	-	
Ratnagiri	Yield	-	-	333	-	
	Area	-	0.06	0.03	0.07	
	Prod.	-	0.04	0.02	0.041	
	Yield	-	667	667	586	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Sangli		-	-	0.014	-	
		-	-	0.01	-	
		-	-	714	-	
Satara	Area	-	0.1	0.1	0.03	
	Prod.	-	0.02	0.04	0.01	
	Yield	-	200	400	333	
Sindhudurg		-	-	0.01	0.05	
		-	-	1000	640	
	Area	-	0.3	0.1	0.01	
Solapur	Prod.	-	0.04	0.02	0.002	
	Yield	-	133	200	200	
	Area	-	0.1	-	-	
Wardha	Prod.	-	0.1	-	-	
	Yield	-	1000	-	-	
	Area	-	0.1	-	0.77	
Washim	Prod.	-	0.04	-	0.2	
	Yield	-	400	-	260	
	Area	-	-	0.005	-	
Yavatmal	Prod.	-	-	0.002	-	
	Yield	-	-	400	-	
	Manipur					
Bishnupur	Area	5	5	5	5	
	Prod.	5	5	5	4	
	Yield	834	842	839	757	
Chandel	Area	3	3	3	3	
	Prod.	2	2	2	2	
	Yield	848	853	862	833	
Churachandp	Area	3	3	3	3	
	Prod.	2	2	2	2	
	Yield	842	843	844	860	
Imphal East	Area	3	3	3	3	
	Prod.	3	3	3	3	
	Yield	888	898	899	906	
Imphal West	Area	3	3	3	3	
	Prod.	2	2	2	2	
	Yield	864	872	884	872	
Senapati	Area	3	3	3	3	
	Prod.	2	2	2	2	
	Yield	811	820	824	824	
Tamenglong	Area	3	3	3	3	
	Prod.	2	2	2	2	
	Yield	848	853	858	856	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Thuoubal	Area	4	4	4	4	
	Prod.	3	3	3	3	
	Yield	866	893	885	883	
Ukhrul	Area	4	4	4	4	
	Prod.	3	3	3	3	
	Yield	816	821	820	825	
Meghalaya						
East Garo Hills	Area	0.3	0.3	0.3	0.3	
	Prod.	0.3	0.3	0.3	0.3	
	Yield	788	795	796	800	
East Jaintia Hills	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	909	833	833	833	
East Khasi Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	882	875	878	879	
North Garo Hills	Area	1	1	1	1	
	Prod.	1	0.3	0.3	0.3	
	Yield	1087	460	462	463	
Ri Bhoi	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.2	0.2	
	Yield	728	723	726	727	
South Garo Hills	Area	0.3	0.3	0.3	0.3	
	Prod.	0.2	0.3	0.3	0.3	
	Yield	867	869	870	874	
South West Garo Hills	Area	3	3	3	3	
	Prod.	3	3	3	3	
	Yield	977	980	981	982	
South West Khasi Hills	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	1400	1400	1400	1400	
West Garo Hills	Area	5	5	5	5	
	Prod.	5	5	5	5	
	Yield	978	980	982	982	
West Jaintia Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	888	890	893	895	
West Khasi Hills	Area	0.03	0.03	0.04	0.04	
	Prod.	0.03	0.03	0.03	0.04	
	Yield	970	971	971	972	
Mizoram						
Aizwal	Area	0.1	-	-	-	
	Prod.	0.05	-	-	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Champhai	Yield	505	-	-	-	
	Area	0.3	-	0.01	0.02	
	Prod.	0.3	-	0.04	0.02	
Kolasib	Yield	1012	-	6000	938	
	Area	0.2	0.2	0.2	0.2	
	Prod.	0.2	0.2	0.2	0.2	
Lawingtlai	Yield	870	872	872	900	
	Area	0.01	0.02	0.01	0.01	
	Prod.	0.003	0.01	0.01	0.01	
Lunglei	Yield	600	650	643	667	
	Area	0.01	0.01	0.03	0.03	
	Prod.	0.01	0.01	0.01	0.01	
Mamit	Yield	900	833	310	560	
	Area	0.004	0.003	0.01	0.01	
	Prod.	0.003	0.002	0.01	0.01	
Saiha	Yield	750	667	429	500	
	Area	0.02	-	-	-	
	Prod.	0.02	-	-	-	
Serchhip	Yield	789	-	-	-	
	Area	0.1	0.1	0.1	0.2	
	Prod.	0.1	0.1	0.2	0.2	
Nagaland	Yield	1500	1534	1201	700	
	Area	4	4	4	4	4
	Prod.	4	4	4	4	4
Dimapur	Yield	1014	1014	1014	1014	1014
	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
Kiphire	Yield	1008	1008	1008	1008	1009
	Area	2	2	2	2	2
	Prod.	2	2	2	2	2
Kohima	Yield	1010	1010	1010	1010	1010
	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
Longleng	Yield	1010	1020	1020	1010	1010
	Area	3	3	3	3	3
	Prod.	3	3	3	3	3
Mokokchung	Yield	1010	1010	1006	1006	1007
	Area	4	4	4	4	4
	Prod.	4	4	4	4	4
Mon	Yield	1011	1020	1017	1017	1017
	Area	2	2	2	2	2
	Prod.	3	3	3	3	3
Peren	Area	2	2	2	2	2
	Prod.	3	3	3	3	3

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Phek	Yield	1012	1012	1012	1012	1012
	Area	3	3	3	3	3
	Prod.	3	3	3	3	3
Tuensang	Yield	1007	1007	1007	1007	1007
	Area	2	2	2	2	2
	Prod.	2	2	2	2	2
Wokha	Yield	1009	1019	1019	1019	1019
	Area	3	3	3	3	3
	Prod.	3	3	3	3	3
Zunheboto	Yield	1011	1011	1011	1011	1011
	Area	2	2	2	2	2
	Prod.	2	2	2	2	2
Odisha	Yield	1014	1014	1014	1014	1014
	Area	0.1	0.3	0.4	0.3	
	Prod.	0.0	0.1	0.1	0.1	
Anugul	Yield	121	202	240	232	
	Area	1	1	1	0.5	
	Prod.	0.1	0.4	0.1	0.1	
Balangir	Yield	184	280	238	113	
	Area	1	0.4	0.4	0.4	
	Prod.	0.3	0.2	0.2	0.2	
Balwshwar	Yield	368	598	435	432	
	Area	0.4	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
Baragarh	Yield	294	386	362	335	
	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.04	0.05	0.03	
Bhadrak	Yield	378	672	608	558	
	Area	0.1	0.1	0.1	0.1	
	Prod.	0.01	0.01	0.01	0.01	
Boudh	Yield	65	117	109	91	
	Area	0.003	0.1	0.01	0.03	
	Prod.	0.001	0.03	0.01	0.02	
Cuttack	Yield	333	278	727	500	
	Area	0.02	0.1	0.1	0.2	
	Prod.	0.004	0.04	0.04	0.04	
Deogarh	Yield	267	299	295	229	
	Area	0.001	0.1	0.02	0.03	
	Prod.	0	0.03	0.01	0.01	
Dhenkanal	Yield	0	236	250	212	
	Area	0.10	0.03	0.09	0.04	
	Prod.	0.01	0.01	0.02	0.01	
Gajapati	Area	0.10	0.03	0.09	0.04	
	Prod.	0.01	0.01	0.02	0.01	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Ganjam	Yield	87	182	213	119	
	Area	0.12	0.001	0.01	0.03	
	Prod.	0.023	0	0.001	0.004	
Jagatsinghapur	Yield	185	0	125	148	
	Area	0	0.03	-	0.02	
	Prod.	0	0.01	-	0.01	
Jajapur	Yield	0	419	-	278	
	Area	0.1	0.1	0.3	0.2	
	Prod.	0.01	0.01	0.05	0.02	
Jharsuguda	Yield	94	171	147	106	
	Area	0.1	0.2	0.2	0.04	
	Prod.	0.04	0.1	0.1	0.02	
Kalahandi	Yield	311	478	439	357	
	Area	1	1	1	1	
	Prod.	0.1	0.3	0.2	0.1	
Kandhamal	Yield	119	359	276	164	
	Area	1	1	1	1	
	Prod.	0.1	0.2	0.4	0.2	
Kendrapara	Yield	79	155	244	286	
	Area	0.08	0.02	0.02	0.04	
	Prod.	0.02	0.003	0.01	0.01	
Kendujhar	Yield	202	167	375	310	
	Area	1	1	1	0.1	
	Prod.	0.2	1	0.3	0.04	
Khordha	Yield	248	460	375	285	
	Area	-	-	-	0.02	
	Prod.	-	-	-	0.001	
Koraput	Yield	-	-	-	53	
	Area	0.1	0.04	0.2	0.1	
	Prod.	0.01	0.01	0.1	0.02	
Mayurbhanj	Yield	127	194	294	197	
	Area	0.2	0.8	0.3	0.1	
	Prod.	0.1	0.3	0.2	0.1	
Nayagarh	Yield	287	407	525	458	
	Area	0.2	0.4	0.6	0.2	
	Prod.	0.02	0.06	0.09	0.02	
Nuapada	Yield	109	154	150	102	
	Area	0.07	0.04	-	0.06	
	Prod.	0.00	0.01	-	0.01	
Puri	Yield	61	136	-	119	
	Area	0.04	0.03	-	0.04	
	Prod.	0.01	0.01	-	0.01	
	Yield	135	185	-	222	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Rayagada	Area	1	0.3	1	1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	125	238	195	164	
Sambalpur	Area	0.4	0.7	0.4	0.4	
	Prodn.	0.1	0.4	0.2	0.3	
	Yield	383	530	550	812	
Sonepur	Area	0.1	0.3	0.05	0.1	
	Prodn.	0.01	0.09	0.01	0.03	
	Yield	143	265	255	250	
Sundergarh	Area	0.4	0.9	1.0	0.3	
	Prodn.	0.1	0.4	0.5	0.2	
	Yield	274	440	534	493	
Punjab						
Amritsar	Area	2	2	2	2	2
	Prodn.	3	3	3	3	3
	Yield	1700	1733	1500	1625	1551
Barnala	Area	-	1	1	1	1
	Prodn.	-	1	1	1	1
	Yield	-	1333	1200	1333	1583
Bhatinda	Area	3	2	2	2	2
	Prodn.	5	3	4	4	4
	Yield	1567	1417	2000	1682	1641
Faridkot	Area	-	0.4	0.4	0.4	0.4
	Prodn.	-	0.6	0.4	0.6	0.5
	Yield	-	1500	1000	1500	1293
Fatehgarh Sahib	Area	1	1	1	1	1
	Prodn.	2	1	1	1	1
	Yield	1600	2000	2000	1667	1671
Fazilka	Area	5	6	6	5	6
	Prodn.	7	8	10	9	8
	Yield	1480	1474	1727	1843	1481
Firozepur	Area	-	0.4	0.3	0.5	0.4
	Prodn.	-	0.6	0.4	0.6	0.5
	Yield	-	1500	1333	1200	1358
Gurdaspur	Area	2	2	2	2	2
	Prodn.	3	3	3	4	2
	Yield	1400	1409	1474	1542	1290
Hoshiarpur	Area	3	4	4	4	4
	Prodn.	3	5	5	4	5
	Yield	1100	1200	1211	1132	1205
Jalandhar	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	1400	1250	1250	1375	1502

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Kapurthala	Area	1	1	1	1	1
	Prod.	2	1	1	1	1
	Yield	1500	1400	2000	1200	1480
Ludhiana	Area	1	1	1	1	1
	Prod.	1	2	2	3	2
	Yield	1300	1500	1571	1923	1744
Mansa	Area	2	2	2	2	2
	Prod.	3	2	3	3	3
	Yield	1250	1500	1667	1800	2001
Moga	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1100	1800	1600	1600	1596
Muktsar	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1100	1286	1429	1286	1429
Nawanshahr	Area	2	2	2	2	-
	Prod.	3	2	3	2	-
	Yield	1300	1333	1471	1467	-
Pathankot	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1000	1400	1111	1222	1449
Patiala	Area	1	1	1	1	1
	Prod.	2	1	1	1	1
	Yield	1500	1625	1571	1714	1695
Rupnagar	Area	2	2	2	2	2
	Prod.	2	3	3	2	2
	Yield	1150	1238	1300	1278	1139
SAS Nagar	Area	-	1	1	1	1
	Prod.	-	1	1	1	1
	Yield	-	1125	1000	1000	1346
Sangrur	Area	2	2	2	2	1
	Prod.	2	2	2	3	3
	Yield	1150	1333	1313	1667	1823
Tarn Taran	Area	-	1	1	1	1
	Prod.	-	1	1	1	1
	Yield	-	1800	1600	1429	1626
Rajasthan						
Ajmer	Area	39	49	24	28	38
	Prod.	47	67	41	51	68
	Yield	1207	1351	1706	1815	1774
Alwar	Area	234	230	229	250	266
	Prod.	340	447	469	534	493
	Yield	1452	1946	2047	2136	1855

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Banswara	Area	0.05	0.03	0.04	0.01	0.01
	Prod.	0.06	0.05	0.07	0.01	0.01
	Yield	1292	1516	1625	1714	1600
Baran	Area	92	74	64	111	69
	Prod.	150	134	136	236	125
	Yield	1622	1821	2120	2118	1814
Barmer	Area	13	14	10	12	19
	Prod.	9	12	10	13	19
	Yield	690	798	963	1095	1016
Bharatpur	Area	203	201	200	218	245
	Prod.	309	390	385	486	404
	Yield	1521	1939	1924	2224	1646
Bhilwara	Area	32	40	22	33	34
	Prod.	33	49	27	40	59
	Yield	1028	1244	1253	1231	1700
Bikaner	Area	65	72	101	161	150
	Prod.	70	77	129	203	197
	Yield	1068	1073	1271	1254	1316
Bundi	Area	51	39	21	59	42
	Prod.	71	55	28	97	67
	Yield	1400	1408	1377	1635	1618
Chittorgarh	Area	47	41	35	40	14
	Prod.	59	65	53	64	26
	Yield	1259	1568	1515	1603	1846
Churu	Area	44	55	73	91	101
	Prod.	43	55	76	119	89
	Yield	988	1013	1040	1306	874
Dausa	Area	60	56	48	52	53
	Prod.	82	85	103	94	88
	Yield	1376	1519	2127	1814	1660
Dholpur	Area	64	61	61	69	72
	Prod.	85	130	137	152	138
	Yield	1328	2134	2245	2203	1930
Dungarpur	Area	0.4	0.4	0.4	0.3	0.1
	Prod.	0.6	0.7	0.7	0.5	0.2
	Yield	1287	1521	1614	1727	1582
Ganganagar	Area	240	230	199	248	232
	Prod.	366	347	344	463	381
	Yield	1524	1508	1733	1870	1641
Hanumangarh	Area	126	124	104	130	124
	Prod.	196	173	175	230	178
	Yield	1555	1398	1679	1765	1433
Jaipur	Area	87	98	68	85	96

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	93	137	110	122	155
	Yield	1072	1389	1628	1430	1620
	Area	46	44	42	47	46
Jaisalmer	Prod.	48	38	41	51	42
	Yield	1035	863	979	1080	915
	Area	88	82	83	75	76
Jaore	Prod.	89	90	105	102	103
	Yield	1013	1108	1268	1364	1357
	Area	40	36	40	69	35
Jhalawar	Prod.	50	53	10	114	56
	Yield	1277	1494	257	1645	1628
	Area	72	70	59	69	74
Jhunjhunu	Prod.	105	98	102	115	115
	Yield	1453	1412	1747	1667	1557
	Area	119	144	149	171	176
Jodhpur	Prod.	131	168	196	232	252
	Yield	1096	1172	1315	1361	1430
	Area	80	81	71	83	90
Karauli	Prod.	116	147	132	166	166
	Yield	1452	1807	1864	1993	1839
	Area	62	41	37	61	25
Kota	Prod.	85	69	62	119	44
	Yield	1367	1677	1665	1932	1761
	Area	59	57	45	65	72
Nagaur	Prod.	71	55	54	88	84
	Yield	1208	957	1190	1349	1162
	Area	59	73	48	32	59
Pali	Prod.	48	93	53	40	78
	Yield	809	1282	1112	1223	1326
	Area	10	11	11	17	9
Pratapgarh	Prod.	13	15	16	29	16
	Yield	1304	1363	1503	1668	1817
	Area	2	2	1	1	1
Rajsamand	Prod.	1	2	1	1	1
	Yield	613	913	822	1014	1370
	Area	168	163	99	159	150
Sawai Madhopur	Prod.	157	271	171	301	281
	Yield	935	1661	1717	1893	1871
	Area	49	44	33	39	47
Sikar	Prod.	57	46	41	55	61
	Yield	1157	1054	1231	1420	1309
	Area	19	19	12	11	11
Siroh	Prod.	15	20	12	12	14

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Tonk	Yield	794	1064	1049	1094	1274
	Area	251	244	187	270	282
	Prod.	310	410	297	445	485
Udaipur	Yield	1236	1677	1590	1647	1717
	Area	11	10	8	6	6
	Prod.	9	10	7	6	4
Sikkim	Yield	794	986	940	892	711
	Area	1	2	2	1	
	Prod.	1	1	1	1	
East District	Yield	812	862	863	864	
	Area	0.3	0.3	0.3	0.3	
	Prod.	0.2	0.2	0.2	0.2	
North District	Yield	710	717	719	726	
	Area	1	1	1	1	
	Prod.	1	1	1	1	
South District	Yield	933	935	935	933	
	Area	1	1	0	0	
	Prod.	1	0	0	0	
West District	Yield	864	870	869	865	
	Area	0.02	-	0.02	-	
	Prod.	0.002	-	0.002	-	
Dharmapuri	Yield	111	-	105	-	
	Area	0.00	0.02	-	-	
	Prod.	0.001	0.004	-	-	
Erode	Yield	333	200	-	-	
	Area	0.3	0.2	0.3	-	
	Prod.	0.1	0.0	0.1	-	
Krishnagiri	Yield	243	234	241	-	
	Area	0.01	-	-	-	
	Prod.	0.003	-	-	-	
Salem	Yield	250	-	-	-	
	Area	-	0.002	-	-	-
	Prod.	-	0.001	-	-	-
Coimbatore	Yield	-	500	-	-	-
	Area	0.02	-	0.02	0	-
	Prod.	0.002	-	0.002	0	-
Dharmapuri	Yield	111	-	105	0	-
	Area	0.003	0.02	-	-	-
	Prod.	0.001	0.004	-	-	-
Erode	Yield	333	200	-	-	-
	Area	0.3	0.2	0.3	0.3	0.1
	Prod.					

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	0.1	0.04	0.1	0.1	0.03
	Yield	243	234	241	243	241
	Area	-	-	-	-	-
Namakkal	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	0.01	-	-	-	-
Salem	Prod.	0.003	-	-	-	-
	Yield	250	-	-	-	-
	Area	-	-	-	0	-
Thanjavur	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
	Area	-	-	0.007	-	-
Theni	Prod.	-	-	0.002	-	-
	Yield	-	-	286	-	-
	Area	-	-	-	0	-
The Nilgiris	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
	Area	-	-	-	0.003	-
Vellore	Prod.	-	-	-	0.001	-
	Yield	-	-	-	333	-
	Area	-	-	-	-	-
Villupuram	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Telangana					
Adilabad	Area	0.3	-	-	0.002	0.002
	Prod.	0.2	-	-	0.004	0.003
	Yield	580	-	-	2000	1853
Gadwal	Area	-	-	-	-	0
	Prod.	-	-	-	-	0
	Yield	-	-	-	-	1765
Jagityal	Area	-	-	-	-	1
	Prod.	-	-	-	-	1
	Yield	-	-	-	-	1285
Karimnagar	Area	1	-	-	-	-
	Prod.	1	-	-	-	-
	Yield	1539	-	-	-	-
Kamareddy	Area	-	-	-	-	0.01
	Prod.	-	-	-	-	0.01
	Yield	-	-	-	-	1744
Khammam	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Medak	Area	-	-	-	-	0.001

Rapeseed and Mustard

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Nizamabad	Prodn.	-	-	-	-	0.002
	Yield	-	-	-	-	2471
	Area	0.3	-	-	1	0.2
	Prodn.	0.3	-	-	4	1
	Yield	946	-	-	3466	3550
	Area					0.001
Sangareddy	Prodn.					0.002
	Yield					2471
	Area					0
Siricilla	Prodn.					0
	Yield					2471
	Area					
Tripura						
Dhalai	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	828	833	798	818	
Gomati	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	845	868	918	844	
Khowai	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	810	831	828	802	
North Tripura	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	771	854	887	824	
Sepahijala	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	849	819	818	815	
South Tripura	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	840	848	860	825	
Unakoti	Area	1	1	1	1	
	Prodn.	0.5	0.5	1	1	
	Yield	735	767	767	852	
West Tripura	Area	0.5	1	1	1	
	Prodn.	0.4	1	1	1	
	Yield	713	719	720	871	
Uttar Pradesh						
Agra	Area	39	52	54	61	55
	Prodn.	47	92	114	135	95
	Yield	1224	1767	2116	2208	1727
Aligarh	Area	20	25	24	24	20
	Prodn.	23	35	39	40	28
	Yield	1165	1389	1641	1699	1427

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Allahabad	Area	1	1	1	1	1
	Prod.	1	1	1	1	2
	Yield	636	845	908	1059	1273
Ambedkar Nagar	Area	4	4	4	7	6
	Prod.	3	3	3	6	4
	Yield	755	716	819	850	651
Amethi	Area	2	4	3	7	4
	Prod.	2	3	2	6	2
	Yield	755	716	819	850	678
Amroha	Area	3	3	3	3	3
	Prod.	4	3	4	5	4
	Yield	1342	995	1338	1411	1338
Auraiya	Area	13	14	15	15	13
	Prod.	18	22	23	29	19
	Yield	1318	1577	1597	1904	1490
Azamgarh	Area	2	2	2	2	2
	Prod.	2	3	3	3	3
	Yield	1022	1250	1399	1491	1265
Baghpat	Area	4	2	2	2	2
	Prod.	4	3	2	2	3
	Yield	1104	1400	1258	1307	1439
Bahraich	Area	9	5	7	10	7
	Prod.	7	4	7	9	5
	Yield	754	808	963	897	711
Ballia	Area	1	1	1	1	1
	Prod.	1	1	1	2	1
	Yield	1022	1249	1399	1491	1264
Balrampur	Area	17	19	18	18	18
	Prod.	14	15	16	14	13
	Yield	834	773	906	816	709
Banda	Area	1	5	3	3	3
	Prod.	0.2	3	2	3	2
	Yield	252	561	672	1000	888
Barabanki	Area	25	22	21	23	21
	Prod.	19	15	17	19	14
	Yield	759	712	820	851	651
Bareilly	Area	12	15	16	19	18
	Prod.	11	13	28	33	12
	Yield	882	888	1780	1732	700
Basti	Area	3	3	3	3	3
	Prod.	3	3	3	3	2
	Yield	1023	1092	1099	1126	829
Bijnor	Area	2	5	4	5	8

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	3	6	3	6	10
	Yield	1174	1277	754	1411	1254
	Area	22	41	36	37	35
Budaun	Prod.	34	43	59	85	64
	Yield	1537	1039	1625	2311	1823
	Area	9	10	10	15	10
Bulandshahr	Prod.	11	13	17	27	13
	Yield	1273	1313	1716	1857	1346
	Area	0.3	0.3	0.4	0.3	0.3
Chandauli	Prod.	0.1	0.6	0.5	0.1	0.1
	Yield	399	1940	1157	495	332
	Area	5	2	2	2	2
Chitrakoot	Prod.	1	2	1	2	1
	Yield	174	758	616	838	580
	Area	2	2	2	2	2
Deoria	Prod.	1	1	2	2	1
	Yield	575	747	1171	1123	747
	Area	12	11	12	14	16
Etah	Prod.	18	16	24	29	30
	Yield	1457	1465	1959	2069	1832
	Area	15	17	15	15	18
Etawah	Prod.	20	36	29	34	35
	Yield	1411	2141	1918	2303	1967
	Area	4	4	4	4	5
Faizabad	Prod.	3	3	3	3	4
	Yield	755	717	820	850	651
	Area	7	7	7	7	7
Farrukhabad	Prod.	8	11	12	9	8
	Yield	1072	1585	1674	1401	1243
	Area	17	16	15	17	17
Fatehpur	Prod.	10	18	19	18	18
	Yield	601	1133	1232	1114	1065
	Area	8	10	13	14	11
Firozabad	Prod.	11	17	21	25	19
	Yield	1396	1677	1706	1862	1765
	Area	0.2	0.5	0.6	0.8	0.6
Gautam Buddha Nagar	Prod.	0.2	0.8	0.7	0.9	0.9
	Yield	1106	1400	1172	1151	1442
	Area	1	1	2	2	1
Ghaziabad	Prod.	1	2	3	2	2
	Yield	1104	1401	1172	1150	1319
	Area	0.7	0.5	0.5	0.4	0.5
Ghazipur	Prod.	0.3	0.9	0.5	0.2	0.2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Gonda	Yield	402	1939	1155	495	332
	Area	8	7	8	11	8
	Prod.	8	8	7	11	8
Gorakhpur	Yield	976	1095	862	1002	1034
	Area	3	3	4	3	6
	Prod.	2	2	5	4	5
Hamirpur	Yield	575	747	1171	1123	990
	Area	12	19	14	17	13
	Prod.	5	21	16	17	11
Hapur	Yield	456	1136	1099	1007	847
	Area	2	2	2	3	4
	Prod.	3	3	3	4	6
Hardoi	Yield	1432	1207	1172	1400	1762
	Area	13	14	13	13	19
	Prod.	12	14	15	16	18
Hathras	Yield	901	1028	1140	1238	983
	Area	8	11	11	12	9
	Prod.	10	17	17	20	14
Jalaun	Yield	1268	1530	1569	1673	1562
	Area	11	18	16	24	20
	Prod.	5	28	18	29	26
Jaunpur	Yield	472	1503	1159	1231	1298
	Area	4	4	3	7	4
	Prod.	2	7	4	3	1
Jhansi	Yield	400	1940	1156	496	339
	Area	7	11	10	13	9
	Prod.	3	9	8	12	10
Kannauj	Yield	399	792	842	920	1035
	Area	6	7	10	8	8
	Prod.	7	11	21	13	13
Kanpur Dehat	Yield	1329	1628	2147	1642	1557
	Area	24	23	23	25	23
	Prod.	25	38	39	49	38
Kanpur Nagar	Yield	1005	1651	1687	1980	1620
	Area	14	14	14	15	14
	Prod.	17	18	16	22	19
Kasganj	Yield	1153	1338	1150	1411	1354
	Area	9	10	12	10	10
	Prod.	16	18	25	20	19
Kaushambi	Yield	1801	1788	2111	2034	1885
	Area	2	2	2	4	2
	Prod.	2	2	2	5	2
	Yield	790	1118	1457	1160	1164

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Kheri	Area	29	25	27	28	29
	Prod.	25	22	25	28	27
	Yield	857	881	925	997	935
Kushi Nagar	Area	7	10	10	10	10
	Prod.	5	7	9	6	7
	Yield	720	742	870	585	716
Lalitpur	Area	2	8	8	5	5
	Prod.	1	6	5	4	4
	Yield	401	716	578	787	775
Lucknow	Area	4	5	4	6	3
	Prod.	3	5	5	5	2
	Yield	743	1006	1162	943	514
Maharajganj	Area	3	3	3	3	5
	Prod.	2	3	4	4	3
	Yield	541	747	1171	1123	578
Mahoba	Area	3	8	9	6	7
	Prod.	0	7	4	3	7
	Yield	80	852	424	565	940
Mainpuri	Area	7	7	7	8	14
	Prod.	11	15	14	15	27
	Yield	1668	1996	2008	1929	1887
Mathura	Area	40	46	45	53	43
	Prod.	62	85	89	115	68
	Yield	1567	1828	1961	2180	1581
Mau	Area	0.4	0.2	0.2	0.2	0.2
	Prod.	0.4	0.3	0.3	0.3	0.3
	Yield	1023	1250	1401	1491	1267
Meerut	Area	6	5	5	6	5
	Prod.	7	7	7	8	7
	Yield	1070	1401	1419	1397	1428
Mirzapur	Area	2	3	2	3	2
	Prod.	1	2	2	2	2
	Yield	503	735	763	844	806
Moradabad	Area	3	3	2	2	2
	Prod.	3	3	3	3	3
	Yield	1011	1176	1256	1201	1303
Muzaffarnagar	Area	5	4	4	4	4
	Prod.	5	5	6	5	5
	Yield	993	1235	1412	1399	1267
Pilibhit	Area	10	12	11	10	11
	Prod.	8	10	9	9	10
	Yield	831	865	828	911	856
Pratapgarh	Area	2	2	1	8	2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	1	2	2	9	2
	Yield	637	1121	1252	1133	1098
	Area	7	7	7	7	8
Rae Bareli	Prod.	3	5	5	4	6
	Yield	376	658	753	621	746
	Area	3	4	4	4	4
Rampur	Prod.	3	6	4	5	5
	Yield	843	1377	1015	1147	1193
	Area	1.2	1.0	1.0	0.9	0.9
Saharanpur	Prod.	1.2	1.1	1.4	1.3	1.2
	Yield	981	1169	1449	1458	1408
	Area	12	12	11	13	13
Sambhal	Prod.	15	16	16	20	21
	Yield	1270	1376	1506	1466	1600
	Area	2	4	3	4	2
Sant Kabeer Nagar	Prod.	2	4	3	4	2
	Yield	1023	1092	1099	1126	829
	Area	0.2	0.4	0.1	0.1	0.2
Sant Ravidas Nagar	Prod.	0.1	0.2	0.1	0.1	0.1
	Yield	442	664	656	712	710
	Area	8	14	14	15	13
Shahjahanpur	Prod.	7	12	18	26	16
	Yield	868	828	1228	1799	1245
	Area	1	1	1	1	2
Shamli	Prod.	1	1	2	2	4
	Yield	981	986	1615	1765	1665
	Area	3	3	4	5	3
Shravasti	Prod.	2	2	2	3	2
	Yield	718	728	674	686	666
	Area	2	3	3	3	3
Siddarth Nagar	Prod.	2	4	4	4	3
	Yield	1023	1092	1099	1126	829
	Area	24	28	27	28	28
Sitapur	Prod.	20	25	25	24	23
	Yield	829	900	948	844	811
	Area	4	4	3	3	3
Sonbhadra	Prod.	2	2	2	2	2
	Yield	396	609	602	600	648
	Area	3	3	3	3	3
Sultanpur	Prod.	2	2	2	3	2
	Yield	755	717	819	850	651
	Area	15	16	17	17	16
Unnao	Prod.	12	15	19	20	18

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Varanasi	Yield	775	927	1097	1197	1116
	Area	0.7	0.7	0.7	1.2	0.7
	Prod.	0.3	1.4	0.8	0.6	0.2
	Yield	401	1940	1156	495	334
Uttarakhand						
Almora	Area	0.5	0.7	1.3	1.1	
	Prod.	0.2	0.3	1.1	0.9	
	Yield	420	403	850	776	
Bageshwar	Area	0.2	0.1	0.04	0.02	
	Prod.	0.03	0.02	0.02	0.01	
	Yield	219	237	590	565	
Chamoli	Area	0.5	0.5	0.4	0.5	
	Prod.	0.5	0.5	0.1	0.4	
	Yield	954	853	359	809	
Champawat	Area	0.6	0.6	0.6	0.7	
	Prod.	0.4	0.7	0.7	0.7	
	Yield	675	1030	1047	1049	
Dehradun	Area	0.3	0.9	0.8	0.8	
	Prod.	0.2	0.5	0.8	0.8	
	Yield	751	621	973	973	
Haridwar	Area	1.2	1.3	1.4	1.3	
	Prod.	0.9	1.0	1.3	1.2	
	Yield	787	788	973	912	
Nainital	Area	0.3	0.2	0.2	0.2	
	Prod.	0.3	0.2	0.2	0.2	
	Yield	1019	855	1049	1140	
Pauri Garhwal	Area	1	1	2	2	
	Prod.	1	1	1	1	
	Yield	524	837	358	808	
Pithoragarh	Area	0.6	0.8	0.7	1.0	
	Prod.	0.4	0.8	0.7	1.0	
	Yield	617	1092	1000	992	
Rudra Prayag	Area	0.4	0.3	0.4	0.4	
	Prod.	0.2	0.2	0.1	0.3	
	Yield	508	573	358	807	
Tehri Garhwal	Area	0.8	0.9	0.8	0.8	
	Prod.	0.6	0.9	0.4	0.5	
	Yield	674	973	541	717	
Udam Singh Nagar	Area	5	5	4	4	
	Prod.	7	5	4	5	
	Yield	1376	999	1086	1143	
Uttar Kashi	Area	1.0	0.7	1.0	0.9	
	Prod.	0.7	0.3	0.5	0.5	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	698	354	558	521	
West Bengal						
Parganas North	Area	46	50	36	37	
	Prod.	61	60	46	51	
	Yield	1319	1210	1290	1387	
Parganas South	Area	5	6	2	3	
	Prod.	4	5	2	2	
	Yield	779	787	897	675	
Alipurduar	Area	-	4	5	6	
	Prod.	-	3	2	3	
	Yield	-	772	478	599	
Bankura	Area	12	13	14	15	
	Prod.	10	11	12	13	
	Yield	841	793	841	864	
Birbhum	Area	36	33	33	37	
	Prod.	32	31	32	33	
	Yield	893	920	973	907	
Coochmehar	Area	11	10	33	31	
	Prod.	6	7	26	25	
	Yield	504	680	783	786	
Darjeeling	Area	0.5	0.4	0.4	0.4	
	Prod.	0.2	0.2	0.1	0.2	
	Yield	476	504	351	405	
Dinajpur Dakshin	Area	29	26	88	70	
	Prod.	34	31	132	126	
	Yield	1200	1196	1501	1790	
Dinajpur Uttar	Area	66	61	69	72	
	Prod.	60	49	93	87	
	Yield	909	806	1355	1208	
Hooghly	Area	8	8	10	11	
	Prod.	6	7	9	10	
	Yield	794	870	962	952	
Howrah	Area	1	1	2	2	
	Prod.	1	1	2	2	
	Yield	661	566	922	952	
Jalpaiguri	Area	8	3	5	5	
	Prod.	5	2	5	4	
	Yield	718	678	908	950	
Jhargram	Area	-	1	6	7	
	Prod.	-	1	4	6	
	Yield	-	696	757	846	
Kalimpong	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Maldah	Yield	-	592	611	620	
	Area	32	38	46	46	
	Prod.	36	44	59	72	
Medinipur East	Yield	1123	1173	1268	1568	
	Area	1	2	3	2	
	Prod.	0	2	3	2	
Medinipur West	Yield	847	911	1068	911	
	Area	6	12	10	11	
	Prod.	6	10	10	10	
Murshidabad	Yield	904	786	936	939	
	Area	95	92	129	127	
	Prod.	112	121	167	150	
Nadia	Yield	1177	1315	1295	1181	
	Area	77	71	88	88	
	Prod.	93	85	94	99	
Paschim Bardhaman	Yield	1204	1198	1074	1135	
	Area	-	1	1		
	Prod.	-	1	1		
Purba Bardhaman	Yield	-	845	1015		
	Area	24	23	32		
	Prod.	23	23	34		
Purulia	Yield	960	983	1076		
	Area	1	1	5		
	Prod.	1	1	4		
	Yield	675	799	884		

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

4. Soybean

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4.1 World Area, Production and Yield of Soybean

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Production	Yield
2015	120902	323308	2674
2016	122000	335899	2753
2017	125854	359532	2857
2018	124024	344642	2779
2019	120502	333672	2769

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

4.2 Area, Production and Yield of Soybean in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Albania	Area	0.2	0.3	0.2	0.3	0.2
	Prod.	0.5	0.7	0.5	0.7	0.6
	Yield	2500	2515	2203	2941	2763
Angola	Area	23	25	40	36	36
	Prod.	15	16	36	35	37
	Yield	651	632	909	983	1030
Argentina	Area	19352	19505	17335	16318	16576
	Prod.	61447	58799	54972	37788	55264
	Yield	3175	3015	3171	2316	3334
Australia	Area	20	21	17	32	13
	Prod.	37	29	31	29	15
	Yield	1855	1414	1881	901	1130
Austria	Area	57	50	64	68	69
	Prod.	136	153	193	186	218
	Yield	2394	3065	3000	2758	3147
Bangladesh	Area	48	50	63	59	62
	Prod.	92	92	97	99	111
	Yield	1911	1833	1542	1660	1773
Belize	Area	4	4	7	6	7
	Prod.	5	8	13	12	8
	Yield	1339	1850	1831	1840	1105
Benin	Area	152	153	157	200	210
	Prod.	140	157	165	222	230
	Yield	920	1024	1052	1111	1095
Bolivia	Area	1323	1336	1264	1363	1388
	Prod.	3106	3204	2671	2942	2991
	Yield	2348	2398	2114	2159	2155
Bosnia and Herzegovina	Area	7	7	8	9	9
	Prod.	11	19	12	23	24
	Yield	1425	2658	1564	2720	2632
Brazil	Area	32181	33183	33960	34778	35881
	Prod.	97465	96395	114732	117912	114269
	Yield	3029	2905	3379	3390	3185
Bulgaria	Area	34	14	12	2	4

Country	Unit	2015	2016	2017	2018	2019
	Prod.	40	18	20	5	8
	Yield	1169	1292	1735	2039	1961
	Area	18	23	17	28	45
Burkina Faso	Prod.	20	26	19	31	52
	Yield	1109	1116	1061	1110	1157
	Area	3	7	4	5	5
Burundi	Prod.	2	2	2	2	3
	Yield	595	327	483	521	563
	Area	102	102	104	105	109
Cambodia	Prod.	162	162	168	170	176
	Yield	1588	1588	1615	1619	1619
	Area	16	18	20	15	16
Cameroon	Prod.	21	25	27	21	23
	Yield	1335	1375	1386	1393	1445
	Area	2233	2232	2935	2540	2271
Canada	Prod.	6456	6597	7717	7417	6045
	Yield	2892	2956	2629	2920	2663
	Area	6508	7095	8248	8416	8426
China	Prod.	11788	12792	15287	15972	15729
	Yield	1811	1803	1853	1898	1867
	Area	34	29	27	35	41
Colombia	Prod.	88	81	80	92	114
	Yield	2580	2767	2933	2666	2813
	Area	0.3	0.5	0.4	0.3	0.3
Côte d'Ivoire	Prod.	0.5	0.7	0.6	0.4	0.4
	Yield	1515	1522	1448	1441	1450
	Area	89	79	85	77	78
Croatia	Prod.	196	244	208	245	244
	Yield	2210	3105	2441	3181	3119
	Area	12	11	15	15	12
Czechia	Prod.	20	28	37	25	28
	Yield	1644	2637	2412	1659	2275
	Area	300	175	150	107	155
Democratic People's Republic of Korea	Prod.	350	282	223	135	264
	Yield	1167	1611	1491	1264	1704
	Area	46	48	45	45	46
Democratic Republic of the Congo	Prod.	21	24	22	24	25
	Yield	456	500	492	543	544
	Area	22	26	28	23	27
Ecuador	Prod.	33	42	35	26	40
	Yield	1454	1590	1249	1102	1462
	Area	14	13	13	16	14
Egypt	Prod.	47	45	36	47	44
	Yield	3282	3354	2825	2920	3143
	Area	3	3	3	3	3
El Salvador	Prod.	5	6	6	6	6
	Yield	1854	1855	1841	1826	1811

Country	Unit	2015	2016	2017	2018	2019
Ethiopia	Area	38	37	38	65	55
	Prod.	90	81	86	149	126
	Yield	2346	2217	2271	2309	2303
France	Area	123	137	142	154	164
	Prod.	337	339	415	398	429
	Yield	2749	2483	2928	2590	2616
Gabon	Area	4	4	5	5	5
	Prod.	4	4	4	4	4
	Yield	874	883	881	880	878
Georgia	Area	1	1	1	1	1
	Prod.	2	2	2	2	2
	Yield	3244	3138	3218	3300	3378
Germany	Area	12	16	19	24	29
	Prod.	27	43	66	59	84
	Yield	2250	2688	3474	2436	2910
Ghana	Area	86	87	102	117	99
	Prod.	142	143	170	196	167
	Yield	1650	1649	1676	1677	1681
Greece	Area	4	3	3	1	1
	Prod.	11	9	8	3	4
	Yield	2944	2903	2897	4131	3612
Guatemala	Area	15	15	15	15	15
	Prod.	38	38	38	38	39
	Yield	2533	2533	2533	2533	2600
Honduras	Area	1	1	1	1	1
	Prod.	2	2	2	2	2
	Yield	2000	2000	2000	2000	2029
Hungary	Area	72	61	76	62	58
	Prod.	146	185	179	181	170
	Yield	2025	3027	2369	2918	2912
India	Area	11670	11180	11183	10329	11131
	Prod.	8570	13159	13159	10933	13268
	Yield	734	1177	1177	1059	1192
Indonesia	Area	614	577	356	724	620
	Prod.	963	860	539	954	940
	Yield	1569	1490	1514	1317	1516
Iran	Area	62	52	83	72	67
	Prod.	140	139	200	170	160
	Yield	2275	2659	2410	2361	2388
Italy	Area	309	288	322	327	273
	Prod.	1117	1081	1020	1186	1043
	Yield	3615	3754	3163	3633	3815
Japan	Area	142	150	150	147	144
	Prod.	243	238	253	211	218
	Yield	1712	1587	1684	1441	1518
Kazakhstan	Area	106	106	125	124	139
	Prod.	220	231	252	255	282

Country	Unit	2015	2016	2017	2018	2019
	Yield	2078	2179	2011	2066	2032
Kenya	Area	3	2	2	2	2
	Prodn.	3	2	3	2	2
	Yield	943	906	1047	1003	999
Kyrgyzstan	Area	1	1	2	2	1
	Prodn.	1	1	4	3	3
Lao People's Democratic Republic	Yield	1242	1200	2053	1770	1938
	Area	12	12	4	5	7
	Prodn.	19	19	8	8	12
Liberia	Yield	1572	1585	1869	1772	1739
	Area	8	8	8	8	8
	Prodn.	3	3	3	3	3
Lithuania	Yield	424	427	428	430	431
	Area	0	0	0	2	2
	Prodn.	0	0	0	3	2
Malawi	Yield	0	0	0	1797	1269
	Area	139	150	189	179	180
	Prodn.	121	132	209	175	170
Mali	Yield	870	885	1105	981	944
	Area	10	18	14	14	17
	Prodn.	5	12	6	7	10
Mexico	Yield	539	643	418	481	615
	Area	250	278	263	191	146
	Prodn.	341	509	433	324	233
Morocco	Yield	1365	1833	1649	1700	1594
	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
Myanmar	Yield	1000	1000	974	977	993
	Area	149	143	140	139	137
	Prodn.	154	149	145	144	142
Nepal	Yield	1039	1043	1041	1034	1033
	Area	24	23	24	22	25
	Prodn.	28	29	29	28	32
Nicaragua	Yield	1201	1233	1233	1264	1254
	Area	3	3	3	4	4
	Prodn.	6	6	6	10	10
Nigeria	Yield	1724	1724	1724	2500	2500
	Area	609	1071	1120	696	656
	Prodn.	589	937	994	650	630
Paraguay	Yield	966	875	888	933	960
	Area	3540	3370	3380	3510	3565
	Prodn.	8856	9163	10478	11046	8520
Peru	Yield	2502	2719	3100	3147	2390
	Area	1	1	1	1	1
	Prodn.	2	1	2	2	1
Philippines	Yield	1803	1733	2128	1839	1865
	Area	0.5	1	1	0	0

Country	Unit	2015	2016	2017	2018	2019
	Prod.	1	1	1	1	1
	Yield	1133	1099	1296	1343	1430
	Area	0	8	9	5	8
Poland	Prod.	0	15	20	10	16
	Yield	0	1930	2175	1906	1962
	Area	57	49	46	51	59
Republic of Korea	Prod.	104	75	86	89	105
	Yield	1827	1539	1880	1766	1800
	Area	66	36	33	27	37
Republic of Moldova	Prod.	48	42	47	58	64
	Yield	726	1172	1397	2125	1733
	Area	127	125	165	169	158
Romania	Prod.	262	263	394	493	440
	Yield	2071	2105	2390	2908	2783
	Area	2084	2120	2573	2741	2772
Russian Federation	Prod.	2708	3143	3622	4027	4360
	Yield	1299	1482	1407	1469	1573
	Area	46	46	53	53	47
Rwanda	Prod.	22	22	24	24	25
	Yield	473	472	449	449	525
	Area	185	182	202	196	229
Serbia	Prod.	454	576	461	646	701
	Yield	2459	3161	2287	3286	3054
	Area	43	35	44	45	48
Slovakia	Prod.	62	92	102	107	120
	Yield	1431	2652	2334	2361	2514
	Area	2	2	3	2	1
Slovenia	Prod.	5	7	8	5	4
	Yield	2750	2996	2652	3028	2965
	Area	687	503	574	787	731
South Africa	Prod.	1070	742	1316	1540	1170
	Yield	1557	1476	2293	1956	1602
	Area	1	1	2	1	2
Spain	Prod.	4	3	5	4	5
	Yield	3118	2883	2718	2939	3293
	Area	5	6	8	2	1
Sri Lanka	Prod.	7	10	14	3	2
	Yield	1439	1560	1727	1655	2404
	Area	2	2	2	2	2
Switzerland	Prod.	4	5	6	4	5
	Yield	2358	2550	3329	2077	3109
	Area	0.3	2	2	1	1
Syrian Arab Republic	Prod.	0.5	4	4	2	2
	Yield	1667	1636	1579	1925	1538
	Area	34	30	24	24	24
Thailand	Prod.	57	38	43	41	39
	Yield	1664	1259	1771	1713	1667

Country	Unit	2015	2016	2017	2018	2019
Timor-Leste	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1334	1383	1417	1451	1484
Togo	Area	5	5	5	5	6
	Prod.	2	2	2	2	2
	Yield	441	442	444	445	447
Turkey	Area	37	38	32	33	35
	Prod.	161	165	140	140	150
	Yield	4400	4322	4421	4262	4250
Uganda	Area	47	47	47	47	48
	Prod.	28	26	28	27	28
	Yield	596	547	598	579	583
Ukraine	Area	2136	1859	1982	1729	1613
	Prod.	3931	4277	3899	4461	3699
	Yield	1841	2300	1968	2580	2293
United Republic of Tanzania	Area	6	7	6	19	19
	Prod.	6	7	6	21	23
	Yield	1028	1030	1020	1129	1200
United States of America	Area	33123	33470	36237	35448	30352
	Prod.	106954	116932	120065	120514	96793
	Yield	3229	3494	3313	3400	3189
Uzbekistan	Area	0	0.1	2	6	3
	Prod.	0	0.2	6	11	11
	Yield	0	1871	2567	1901	3504
Venezuela	Area	8	1	5	5	5
	Prod.	10	2	8	5	5
	Yield	1192	1611	1458	1088	952
Viet Nam	Area	101	100	68	53	50
	Prod.	146	161	102	81	76
	Yield	1455	1614	1498	1524	1530
Zambia	Area	112	138	225	192	196
	Prod.	226	267	351	303	281
	Yield	2020	1941	1559	1577	1434
Zimbabwe	Area	44	40	24	37	30
	Prod.	42	48	36	70	40
	Yield	946	1196	1551	1868	1333
Africa	Area	2118	2451	2707	2572	2471
	Prod.	2620	2725	3548	3560	3097
	Yield	1237	1112	1310	1384	1254
Americas	Area	93428	94598	96553	95340	91248
	Prod.	287922	293991	314468	299470	287167
	Yield	3082	3108	3257	3141	3147
Asia	Area	19971	19895	20817	20421	21199
	Prod.	23209	28610	30763	29453	31725
	Yield	1162	1438	1478	1442	1497
Europe	Area	5365	5036	5760	5659	5570
	Prod.	9520	10543	10722	12131	11667

Country	Unit	2015	2016	2017	2018	2019
Oceania	Yield	1775	2094	1861	2144	2094
	Area	20	21	17	32	13
	Prodn.	37	29	31	29	15
	Yield	1855	1414	1881	901	1130
World	Area	120902	122000	125854	124024	120502
	Prodn.	323308	335899	359532	344642	333672
	Yield	2674	2753	2857	2779	2769

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

4.3 All India Area, Production and Yield of Soybean

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Soybean over Total Area under Oilseeds	% Area Covered under Irrigation(#)
2015-16	11605	8570	738	44	1
2016-17	11183	13159	1177	43	NA
2017-18	10329	10933	1058	42	NA
2018-19	11131	13268	1192		NA
2019-20	12193	11226	921		

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

(#) Provisional; NA: Not Available

4.4 State-wise Area, Production and Yield of Soybean in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State/UT		2015-16	2016-18	2017-18	2018-19	2019-20
Andhra Pradesh	Area	1	2	1	1	1
	Prodn.	2	3	1	2	2
	Yield	2000	1612	1889	1926	1747
Arunachal Pradesh	Area	2.8	3.10	3	3	3
	Prodn.	3.0	4.40	4	4	4
	Yield	991	1420	1417	1417	1418
Bihar	Area					20
	Prodn.					15
	Yield					754
Chhattisgarh	Area	119.70	104.10	96	93	72
	Prodn.	69	72.60	46	65	80
	Yield	576	697	481	699	1105
Gujarat	Area	80	120	146	136	101
	Prodn.	54	86	115	173	133
	Yield	675	717	791	1276	1318
Himachal Pradesh	Area	1	0.61	1	1	1
	Prodn.	1.0	0.59	1	1	1
	Yield	1676	980	1677	1680	1710
Jharkhand	Area	1	1.04	2	6	1
	Prodn.	1	0.60	2	5	1
	Yield	931	579	798	747	858

State/UT		2015-16	2016-18	2017-18	2018-19	2019-20
Karnataka	Area	258.00	318	277	249	320
	Prod.	140	237	253	257	379
	Yield	543	745	913	1034	1183
Madhya Pradesh	Area	5906	5401	5010	5419	6194
	Prod.	4908	6649.00	5321	6671	4887
	Yield	831	1231	1062	1231	789
Maharashtra	Area	3702.00	3840.80	3694	4075	4124
	Prod.	2061	4586.70	3805	4611	4825
	Yield	557	1194	1030	1132	1170
Manipur	Area	5	5.11	5	5	4
	Prod.	4	4.38	5	4	4
	Yield	838	857	907	899	870
Meghalaya	Area	2	1	2	2	2
	Prod.	3	3	4	4	4
	Yield	1982	1892	1898	1900	1906
Mizoram	Area	1	1	1	1	1
	Prod.	2	1	2	2	2
	Yield	1539	1574	1525	1731	1561
Nagaland	Area	25	24.98	25	25	25
	Prod.	31	31.41	32	32	32
	Yield	1254	1257	1259	1260	1262
Odisha	Area	-	-	-	--	--
	Prod.	-	-	-	--	--
	Yield	-	-	-	--	--
Rajasthan	Area	1204.77	1055.61	886	932	1119
	Prod.	999	1131.81	1070	1169	525
	Yield	829	1072	1207	1254	469
Sikkim	Area	3	3.28	3	3	3
	Prod.	3	3	3	3	3
	Yield	973	975	975	976	976
Tamil Nadu	Area	-	-	-	--	--
	Prod.	-	-	-	--	--
	Yield	-	-	-	--	--
Telangana	Area	243	277	152	148	172
	Prod.	252	322	247	234	311
	Yield	1037	1162	1624	1584	1808
Tripura	Area	-	0.30	1	0.1	0.2
	Prod.	-	0.26	0.4	0.1	0.2
	Yield	-	880	732	762	748
Uttar Pradesh	Area	36	11	14	23	22
	Prod.	19	7	11	21	11
	Yield	519	636	777	901	513
Uttarakhand	Area	13.54	12	10	9	8
	Prod.	18	13	12	10	9
	Yield	1332	1083	1190	1067	1111
West Bengal	Area	0.6	0.6	1	0.4	0.2
	Prod.	0.4	0.4	1	0.3	0.2

State/UT		2015-16	2016-18	2017-18	2018-19	2019-20
Others	Yield	708	732	750	803	779
	Area	-	-	-	--	
	Prod.	-	-	-	--	
	Yield	-	-	-	--	
India	Area	11604.54	11183.40	10329	11131	12193
	Prod.	8570.00	13158.73	10933	13268	11226
	Yield	738	1177	1058	1192	921

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

4.5 District-wise Area, Production and Yield of Soybean in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Andhra Pradesh						
Anantapur	Area	0.2	0.7	0.03	0.1	0.01
	Prod.	0.2	0.2	0.03	0.1	533
	Yield	1073	359	1000	1098	-
Chittoor	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
East Godavari	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Guntur	Area	1	0.1	0.01	-	-
	Prod.	1	0.2	0.02	-	-
	Yield	1620	1386	2000	-	-
Kadapa	Area	0.002	0.18	0.004	0.02	-
	Prod.	0.003	0.16	0.01	0.04	-
	Yield	1500	876	2000	1913	-
Kurnool	Area	0.5	0.6	0.3	1	1
	Prod.	0.7	0.9	0.7	3	2
	Yield	1437	1444	1958	1958	1762
Prakasam	Area	0.1	0.001	-	0.01	-
	Prod.	0.2	0.001	-	0.02	-
	Yield	1622	1000	-	2000	-
SPSR Nellore	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Arunachal Pradesh						
Anjaw	Area	-	0.02	0.02	0.02	
	Prod.	-	0.05	0.03	0.03	
	Yield	-	2250	1429	1429	
Changlang	Area	-	0.1	0.2	0.1	
	Prod.	-	0.1	0.5	0.3	
	Yield	-	988	2980	2932	
Dibang Valley	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
East Kameng	Yield	-	1227	733	733	
	Area	-	0.2	0.2	0.2	
	Prod.	-	0.4	0.2	0.2	
East Siang	Yield	-	1643	1047	1047	
	Area	-	0.4	0.3	0.3	
	Prod.	-	0.5	0.3	0.3	
Kamle	Yield	-	1285	1007	1007	
	Area	-	-	-	0.03	
	Prod.	-	-	-	0.02	
Kra Daadi	Yield	-	-	-	645	
	Area	-	0.01	0.01	0.01	
	Prod.	-	0.11	0.01	0.01	
Kurung Kumey	Yield	-	9500	357	357	
	Area	-	0.11	0.01	0.01	
	Prod.	-	0.11	0.03	0.03	
Lohit	Yield	-	1009	2909	2909	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.1	0.01	0.01	
Longding	Yield	-	755	100	100	
	Area	-	0.2	0.1	0.1	
	Prod.	-	0.2	0.1	0.1	
Lower Dibang Valley	Yield	-	1256	1526	1526	
	Area	-	0.4	1	1	
	Prod.	-	0.3	1	1	
Lower Siang	Yield	-	715	1375	1378	
	Area	-	-	-	0.1	
	Prod.	-	-	-	0.2	
Lower Subansiri	Yield	-	-	-	2372	
	Area	-	0.04	0.04	0.03	
	Prod.	-	0.14	0.02	0.02	
Namsai	Yield	-	3091	390	533	
	Area	-	0.3	0.5	0.5	
	Prod.	-	0.3	1	1	
Papum Pare	Yield	-	1052	2167	2167	
	Area	-	0.4	0.3	0.3	
	Prod.	-	0.4	0.3	0.3	
Siang	Yield	-	1082	938	938	
	Area	-	0.1	0.04	0.04	
	Prod.	-	0.2	0.2	0.2	
Tawang	Yield	-	2935	5366	5366	
	Area	-	0.3	0.3	0.3	
	Prod.	-	0.5	0.5	0.5	
Tirap	Yield	-	1780	1462	1468	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.2	0.2	0.2	
Upper Subansiri	Yield	-	2689	1481	1481	
	Area	-	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
West Kameng	Prod.	-	0.3	0.1	0.1	
	Yield	-	2106	649	614	
	Area	-	0.1	0.1	0.1	
	Prod.	-	0.2	0.1	0.1	
	Yield	-	1624	986	986	
	Area	-	0.1	0.02	0.02	
West Siang	Prod.	-	0.2	0.04	0.03	
	Yield	-	2619	1900	1400	
Chhattisgarh						
Balod	Area	0.1	-	-	0	
	Prod.	0.02	-	-	0	
	Yield	393	-	-	0	
Baloda Bazar	Area	0.3	0.3	0.004	0.3	
	Prod.	0.2	0.3	0.002	0.3	
	Yield	886	1000	500	827	
Balarampur	Area	0.1	0.1	0.03	0.04	
	Prod.	0.04	0.8	0.01	0.02	
	Yield	370	7920	308	571	
Bastar	Area	-	-	-	0.01	
	Prod.	-	-	-	0.01	
	Yield	-	-	-	1200	
Bemetara	Area	33	30	29	27	
	Prod.	0	18	6	14	
	Yield	0	617	218	501	
Bilaspur	Area	0.1	-	0.1	0.04	
	Prod.	0.1	-	0.03	0.04	
	Yield	719	-	466	923	
Dantewada	Area	0.01	0.01	-	-	
	Prod.	0.01	0.01	-	-	
	Yield	556	1000	-	-	
Durg	Area	6	6	4	4	
	Prod.	3	5	1	2	
	Yield	484	839	398	577	
Janjgir-Champa	Area	0.02	0.01	0.01	0.01	
	Prod.	0.01	0.02	0.01	0.01	
	Yield	684	1071	429	769	
Jashpur	Area	0.01	0.01	-	-	
	Prod.	0.002	0.01	-	-	
	Yield	400	800	-	-	
Kabirdham	Area	33	29	28	21	
	Prod.	17	25	9	11	
	Yield	521	863	323	528	
Kanker	Area	-	-	-	0.001	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	1000	
Korba	Area	-	-	-	0.001	
	Prod.	-	-	-	0.001	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Korea	Yield	-	-	-	1000	
	Area	-	-	-	0.003	
	Prod.	-	-	-	0.002	
Mungeli	Yield	-	-	-	667	
	Area	6	6	6	4	
	Prod.	4	7	3	4	
Raipur	Yield	611	1240	437	898	
	Area	0.1	0.1	0.2	0.1	
	Prod.	0.1	0.2	0.1	0.1	
Rajnandgaon	Yield	852	1358	560	1085	
	Area	35	26	25	24	
	Prod.	15	20	11	21	
Surajpur	Yield	430	772	439	854	
	Area	0.01	0.01	-	0.01	
	Prod.	0.01	0.01	-	0.004	
Surguja	Yield	429	727	-	800	
	Area	0.01	-	-	0.01	
	Prod.	0.003	-	-	0.004	
Gujarat						
Ahmadabad	Yield	500	-	-	800	
	Area	0.01	-	0.002	0.002	-
	Prod.	0.008	-	0.002	0.002	-
Amreli	Yield	800	-	1000	1000	-
	Area	0.4	-	-	0.003	-
	Prod.	0.3	-	-	0.002	-
Anand	Yield	770	-	-	667	-
	Area	0	0.01	0.03	0.01	-
	Prod.	0	0.01	0.02	0.02	-
Aravalli	Yield	1000	700	706	1800	-
	Area	10	16	17	17	0.1
	Prod.	8	17	21	145	0.2
Bharuch	Yield	798	1080	1240	8479	1373
	Area	-	-	6	5	0.05
	Prod.	-	-	7	4	0.07
Chhotaudepur	Yield	-	-	1250	800	1396
	Area	6	10	12	10	0.1
	Prod.	5	8	10	17	0.2
Dang	Yield	839	830	845	1708	1753
	Area	2	2	3	10	0.01
	Prod.	1	1	2	17	0.01
Devbhumi Dwaraka	Yield	413	600	700	1708	636
	Area	-	0.2	-	3	-
	Prod.	-	0.3	-	3	-
Dohad	Yield	-	1751	-	1234	-
	Area	35	41	57	36	0
	Prod.	28	31	44	72	0
Dohad	Yield	785	760	770	2008	990

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Gandhinagar	Area	-	0.05	-	-	-
	Prod.	-	0.04	-	-	-
	Yield	-	880	-	-	-
GIR Somnath	Area	2	5	4	6	0
	Prod.	2	8	6	4	0
	Yield	749	1500	1510	750	1953
Jamnagar	Area	0.32	-	-	0.004	-
	Prod.	0.12	-	-	0.005	-
	Yield	371	-	-	1250	-
Junagadh	Area	0.2	-	-	5	0.03
	Prod.	0.2	-	-	4	0.04
	Yield	749	-	-	745	1318
Kachchh	Area	-	0.01	0.05	-	0.01
	Prod.	-	0	0.04	-	0.01
	Yield	-	800	880	-	1318
Kheda	Area	0.2	0.1	0.9	0.9	-
	Prod.	0.2	0.1	0.7	1.4	-
	Yield	778	713	739	1600	-
Mahisagar	Area	2	1	2	2	0.02
	Prod.	1	1	3	3	0.02
	Yield	840	1190	1510	1455	1128
Narmada	Area	3	3	3	3	0.02
	Prod.	2	3	3	4	0.03
	Yield	809	846	882	1365	1438
Panch Mahals	Area	1	3	3	3	0.02
	Prod.	1	3	4	5	0.03
	Yield	832	1200	1500	1796	1318
Patan	Area	-	0.02	-	-	-
	Prod.	-	0.02	-	-	-
	Yield	-	905	-	-	-
Rajkot	Area	0.5	3	0.4	0.5	0.01
	Prod.	0.2	2	0.2	0.2	0.01
	Yield	373	531	686	475	1095
Sabar Kantha	Area	-	-	-	6	0.1
	Prod.	-	-	-	6	0.1
	Yield	-	-	-	1000	1318
Surat	Area	6	10	13	12	0.1
	Prod.	4	9	12	17	0.1
	Yield	617	875	895	1339	1388
Tapi	Area	7	12	14	14	0.1
	Prod.	6	13	17	18	0.1
	Yield	813	1050	1150	1280	1547
Vadodara	Area	4	14	10	11	0.1
	Prod.	4	10	8	18	0.1
	Yield	840	717	735	1644	1375
Himachal Pradesh						
Bilaspur	Area	0.01	0.01	0.01	0.01	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Chamba	Prod.	0.01	0.01	0.01	0.02	
	Yield	1625	1625	1625	1583	
	Area	-	-	-	0.002	
Kangra	Prod.	-	-	-	0.003	
	Yield	-	-	-	1500	
	Area	0.1	0.1	0.1	0.1	
Kullu	Prod.	0.1	0.1	0.1	0.1	
	Yield	1366	1371	1380	1500	
	Area	0.002	0.002	0.002	0.006	
Mandi	Prod.	0.003	0.003	0.003	0.01	
	Yield	1500	1500	1500	1667	
	Area	0.4	0.4	0.4	0.4	
Shimla	Prod.	0.8	0.7	0.8	0.7	
	Yield	1738	1913	1738	1728	
	Area	0.01	0.01	0.01	0.01	
Sirmaur	Prod.	0.01	0.01	0.01	0.01	
	Yield	2800	1750	2800	1600	
	Area	0.02	0.02	0.02	0.04	
Solan	Prod.	0.02	0.02	0.02	0.06	
	Yield	1438	1375	1500	1600	
	Area	0.02	0.02	0.02	0.02	
Jharkhand	Prod.	0.02	0.02	0.02	0.03	
	Yield	1118	1118	1235	1588	
	Area					
Bokaro	Area	-	0.02	0.2	0.16	0.01
	Prod.	-	0.01	0.16	0.2	0.02
	Yield	-	400	820	1202	1571
Chatra	Area	0.01	-	0.04	0.33	0.1
	Prod.	0.004	-	0.03	0.28	0.19
	Yield	800	-	825	850	1817
Deochar	Area	0.02	0.04	0.003	0.01	-
	Prod.	0.02	0.04	0.003	0.01	-
	Yield	864	864	1000	833	-
Dumka	Area	0.1	-	0.3	0.3	0.3
	Prod.	0.1	-	0.2	0.2	0.2
	Yield	700	-	687	655	600
East Singhbun	Area	0.02	0.3	0.3	0.3	0.2
	Prod.	0.01	0.1	0.2	0.2	0.1
	Yield	733	391	645	481	453
Garhwa	Area	-	-	-	0.3	-
	Prod.	-	-	-	0.2	-
	Yield	-	-	-	610	-
Giridih	Area	0.04	0.04	0.1	0.5	0.1
	Prod.	0.02	0.03	0.1	0.2	0.1
	Yield	514	636	483	479	367
Godda	Area	1	-	-	0.07	0.04
	Prod.	1	-	-	0.06	0.03

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Hazaribagh	Yield	860	-	-	954	943
	Area	-	-	-	0.09	-
	Prod.	-	-	-	0.04	-
Jamtara	Yield	-	-	-	506	-
	Area	-	-	0.003	-	0
	Prod.	-	-	0.004	-	0
Khunti	Yield	-	-	1333	-	0
	Area	0.02	-	0.04	1	-
	Prod.	0.003	-	0.03	1	-
Koderma	Yield	130	-	914	800	-
	Area	0.03	-	0.19	0.01	-
	Prod.	0.02	-	0.15	0.01	-
Latehar	Yield	615	-	800	1167	-
	Area	0.03	0.2	0.3	0.4	-
	Prod.	0.03	0.2	0.4	0.4	-
Lohardaga	Yield	1111	1111	1109	1111	-
	Area	-	-	-	1	-
	Prod.	-	-	-	0.5	-
Pakur	Yield	-	-	-	850	-
	Area	-	-	-	0.2	0.1
	Prod.	-	-	-	0.1	0.1
Palamu	Yield	-	-	-	429	646
	Area	0.003	-	0.04	0.1	0.01
	Prod.	0	-	0.04	0.1	0.01
Ramgarh	Yield	5	-	976	833	1000
	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
Ranchi	Yield	-	-	-	0	-
	Area	0.1	0.1	-	0.1	0.2
	Prod.	0.1	0.1	-	0.1	0.1
Sahebganj	Yield	821	824	-	600	801
	Area	1	-	0.06	1	-
	Prod.	1	-	0.05	0.4	-
Saraikela Kharsawan	Yield	750	-	750	750	-
	Area	0.04	-	-	0.2	0.1
	Prod.	0.02	-	-	0.1	0.1
Simdega	Yield	400	-	-	502	1044
	Area	0.1	0.3	0.3	0.3	-
	Prod.	0	0.1	0.2	0.3	-
Singhbhum	Yield	0	320	800	1000	-
	Area	-	-	-	0.3	-
	Prod.	-	-	-	0.3	-
Karnataka						
Bagalkot	Yield	-	-	-	839	-
	Area	2	4	1	1	1
	Prod.	2	4	1	1	0.5
	Yield	1087	998	1171	1225	716

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Belgaum	Area	90	94	77	72	83
	Prod.	31	101	94	91	83
	Yield	340	1074	1231	1262	1002
Bellary	Area	-	-	-	0.004	0.033
	Prod.	-	-	-	0.004	0.037
	Yield	-	-	-	1000	1121
Bengaluru Urban	Area	-	-	-	0.004	0.003
	Prod.	-	-	-	0.004	0.003
	Yield	-	-	-	1000	1000
Bidar	Area	111	152	149	125	195
	Prod.	73	57	271	103	230
	Yield	655	372	1817	823	1183
Bijapur	Area	-	-	-	0.03	0.04
	Prod.	-	-	-	0.03	0.05
	Yield	-	-	-	967	1125
Chamarajanagar	Area	-	-	-	0.05	0.08
	Prod.	-	-	-	0.05	0.09
	Yield	-	-	-	978	1127
Chikballapur	Area	-	-	-	0.008	0.001
	Prod.	-	-	-	0.008	0.001
	Yield	-	-	-	1000	1000
Chikmagalur	Area	-	-	-	0.01	0.02
	Prod.	-	-	-	0.01	0.02
	Yield	-	-	-	1000	1133
Chitradurga	Area	-	0.06	-	0.02	0.02
	Prod.	-	0.05	-	0.02	0.02
	Yield	-	754	-	1000	1125
Davangere	Area	0.001	-	0.06	0.004	0.01
	Prod.	0.001	-	0.09	0.004	0.01
	Yield	1000	-	1526	1000	1167
Dharwad	Area	40	39	30	35	32
	Prod.	23	52	24	27	33
	Yield	571	1330	806	786	1017
Gadag	Area	0.002	0.003	0.002	0.05	0.06
	Prod.	0.001	0.002	0.003	0.04	0.07
	Yield	500	667	1500	978	1125
Gulbarga	Area	7	20	13	22	19
	Prod.	5	17	26	30	28
	Yield	698	835	1957	1354	1450
Hassan	Area	-	-	-	0.02	0.08
	Prod.	-	-	-	0.02	0.09
	Yield	-	-	-	1000	1122
Haveri	Area	7	10	7	7	6
	Prod.	7	8	7	5	3
	Yield	877	815	974	706	504
Kolar	Area	-	-	-	0.003	0.02
	Prod.	-	-	-	0.003	0.03

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Koppal	Yield	-	-	-	1000	1136
	Area	-	-	-	0.01	0.03
	Prod.	-	-	-	0.01	0.03
Mandya	Yield	-	-	-	1000	1133
	Area	-	-	-	0.1	0.04
	Prod.	-	-	-	0.1	0.05
Mysore	Yield	-	-	-	985	1116
	Area	-	-	-	0.07	0.08
	Prod.	-	-	-	0.07	0.09
Raichur	Yield	-	-	-	986	1130
	Area	-	-	-	0.01	0.02
	Prod.	-	-	-	0.01	0.02
Ramanagara	Yield	-	-	-	1000	1118
	Area	-	-	-	0.01	0.002
	Prod.	-	-	-	0.01	0.002
Tumkur	Yield	-	-	-	1000	1000
	Area	-	-	-	0.01	0.01
	Prod.	-	-	-	0.01	0.01
Uttar Kannad	Yield	-	-	-	1000	1091
	Area	0.006	0.004	0.01	0.02	0.02
	Prod.	0.003	0.003	0.01	0.02	0.02
Kerala	Yield	500	750	1571	1000	1111
	Area	0.001	-	-	-	-
	Prod.	0.001	-	-	-	-
Madhya Pradesh	Yield	1000	-	-	-	-
	Area	129	133	113	166	171
	Prod.	98	171	147	139	120
Agar Malwa	Yield	760	1286	1300	838	702
	Area	23	20	17	22	39
	Prod.	21	26	20	17	18
Alirajpur	Yield	913	1300	1231	744	464
	Area	6	6	6	4	3
	Prod.	3	8	4	3	2
Anuppur	Yield	500	1333	774	702	723
	Area	145	137	141	178	266
	Prod.	192	89	145	265	340
Ashoknagar	Yield	1324	650	1030	1491	1282
	Area	-	0	0.01	0.001	0.001
	Prod.	-	0	0.01	0.001	0.001
Balaghat	Yield	-	0	1000	1000	1000
	Area	34	36	36	19	35
	Prod.	37	51	50	22	35
Barwani	Yield	1088	1417	1400	1152	978
	Area	254	234	223	145	197
	Prod.	100	312	298	93	77
Betul						

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Bind	Yield	394	1333	1335	641	393
	Area	1	0	1	0.02	0.04
	Prod.	1	0	1	0.02	0.03
Bhopal	Yield	1000	0	2000	762	730
	Area	97	88	95	121	121
	Prod.	52	90	94	83	84
Burhanpur	Yield	536	1023	982	682	693
	Area	19	14	15	14	13
	Prod.	8	21	25	16	12
Chhatarpur	Yield	421	1500	1672	1128	945
	Area	49	42	31	19	32
	Prod.	50	45	26	26	14
Chhindwara	Yield	1020	1071	847	1316	441
	Area	96	73	28	6	5
	Prod.	75	96	50	5	6
Damoh	Yield	781	1315	1784	904	1212
	Area	103	70	67	34	90
	Prod.	135	60	90	32	60
Datia	Yield	1311	857	1350	928	667
	Area	9	7	7	0.5	0.1
	Prod.	7	4	6	0.3	0.1
Dewas	Yield	778	571	854	767	773
	Area	337	319	321	383	388
	Prod.	176	473	328	471	257
Dhar	Yield	522	1483	1020	1230	662
	Area	288	289	279	310	304
	Prod.	377	462	361	461	298
Dindori	Yield	1309	1599	1291	1485	980
	Area	10	10	10	8	9
	Prod.	11	13	11	6	6
Guna	Yield	1100	1300	1151	802	647
	Area	237	210	183	204	301
	Prod.	120	172	151	224	158
Gwalior	Yield	506	819	825	1097	525
	Area	4	4	2	1	3
	Prod.	5	4	3	1	3
Harda	Yield	1250	1000	1541	1166	1024
	Area	149	141	96	142	167
	Prod.	66	214	73	140	91
Hoshangabad	Yield	443	1518	752	986	546
	Area	108	92	42	73	76
	Prod.	39	107	26	75	50
Indore	Yield	361	1163	615	1032	663
	Area	223	221	217	244	239
	Prod.	170	351	198	363	358
Jabalpur	Yield	762	1588	915	1491	1497
	Area	15	3	7	0.1	0.4

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
	Prod.	9	3	3	0.1	0.3
	Yield	600	1000	477	909	920
	Area	63	66	64	59	79
Jhabua	Prod.	91	106	91	50	60
	Yield	1444	1606	1430	856	758
	Area	2	0	2	0.02	0.01
Katni	Prod.	2	0	2	0.02	0.01
	Yield	1000	0	1435	1188	1000
	Area	178	164	159	193	187
Khandwa	Prod.	75	221	121	145	79
	Yield	421	1348	762	754	421
	Area	71	63	62	74	57
Khargone	Prod.	109	101	65	72	29
	Yield	1535	1603	1036	973	512
	Area	3	1	3	0.04	0.1
Mandla	Prod.	4	1	0.4	0.04	0.06
	Yield	1333	1000	133	1077	603
	Area	283	241	250	269	302
Mandsaur	Prod.	204	331	281	235	109
	Yield	721	1373	1128	875	360
	Area	3	0	2	1	1
Morena	Prod.	4	0	3	1	1
	Yield	1333	0	1665	1159	1026
	Area	68	52	44	17	28
Narsinghpur	Prod.	35	72	14	13	20
	Yield	515	1385	313	757	705
	Area	144	141	134	126	134
Neemuch	Prod.	90	215	179	105	38
	Yield	625	1525	1336	836	280
	Area	29	22	18	1	2
Panna	Prod.	12	19	19	1	2
	Yield	414	864	1103	924	833
	Area	94	82	85	93	97
Raisen	Prod.	32	70	52	42	44
	Yield	340	854	610	453	449
	Area	339	314	309	382	417
Rajgarh	Prod.	172	368	385	358	161
	Yield	507	1172	1245	935	386
	Area	230	186	205	279	288
Ratlam	Prod.	206	271	374	268	185
	Yield	896	1457	1823	960	644
	Area	54	48	43	2	1
Rewa	Prod.	38	41	39	1	1
	Yield	704	854	914	752	630
	Area	314	290	216	261	351
Sagar	Prod.	152	155	127	265	197
	Yield	484	534	588	1015	560

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Satna	Area	81	65	60	15	11
	Prod.	28	47	35	6	2
	Yield	346	723	582	402	202
Sehore	Area	296	270	270	333	332
	Prod.	138	401	223	388	166
	Yield	466	1485	826	1166	499
Seoni	Area	33	26	31	1	2
	Prod.	15	36	3	1	1
	Yield	455	1385	88	920	762
Shahdol	Area	15	12	12	5	4
	Prod.	11	12	3	3	4
	Yield	733	1000	219	632	927
Shajapur	Area	253	248	237	279	282
	Prod.	166	369	242	374	107
	Yield	656	1488	1024	1341	378
Sheopur	Area	43	40	39	21	27
	Prod.	42	46	30	26	24
	Yield	977	1150	788	1238	899
Shivpuri	Area	157	147	84	114	178
	Prod.	89	128	65	85	145
	Yield	567	871	782	743	812
Sidhi	Area	3	0	2	0.03	0.01
	Prod.	2	0	2	0.02	0.004
	Yield	667	0	748	517	364
Tikamgarh	Area	47	22	24	5	7
	Prod.	29	20	13	3	3
	Yield	617	909	574	652	419
Ujjain	Area	455	459	447	504	506
	Prod.	325	673	468	648	236
	Yield	714	1466	1047	1286	466
Umaria	Area	5	4	2	1	1
	Prod.	2	4	2	1	0.3
	Yield	400	1000	729	627	493
Vidisha	Area	311	290	277	291	439
	Prod.	174	171	376	276	253
	Yield	559	590	1355	951	576
Maharashtra						
Ahmednagar	Area	41	52	59	61	71
	Prod.	20	42	87	38	41
	Yield	484	802	1466	631	571
Akola	Area	227	217	205	213	210
	Prod.	102	306	144	299	190
	Yield	449	1411	703	1404	908
Amravati	Area	366	363	287	292	239
	Prod.	127	483	265	352	199
	Yield	346	1332	924	1206	833
Aurangabad	Area	21	29	26	14	19

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
	Prod.	10	31	12	9	16
	Yield	455	1061	439	646	817
	Area	145	169	181	218	246
Beed	Prod.	24	132	128	53	190
	Yield	164	782	708	242	775
	Area	7	12	5	4	0.3
Bhandara	Prod.	1	13	6	5	0.3
	Yield	136	1127	1208	1131	1041
	Area	352	365	370	404	396
Buldhana	Prod.	160	704	440	448	536
	Yield	455	1928	1187	1109	1352
	Area	117	109	66	75	75
Chandrapur	Prod.	59	108	62	121	66
	Yield	507	998	941	1599	877
	Area	21	18	18	20	19
Dhule	Prod.	13	25	33	32	15
	Yield	644	1383	1772	1586	769
	Area	4	2	0.2	0.2	0.1
Gadchiroli	Prod.	2	2	0.3	0.4	0.2
	Yield	429	857	1500	2293	2298
	Area	165	172	176	216	234
Hingoli	Prod.	79	184	199	301	464
	Yield	478	1072	1134	1394	1979
	Area	32	34	34	32	33
Jalgaon	Prod.	18	64	56	47	18
	Yield	553	1876	1637	1453	549
	Area	120	113	115	136	145
Jalna	Prod.	57	172	81	122	248
	Yield	478	1520	698	899	1714
	Area	54	53	51	48	52
Kolhapur	Prod.	102	124	110	105	103
	Yield	1900	2359	2138	2206	1996
	Area	341	370	393	436	413
Latur	Prod.	109	298	465	445	456
	Yield	320	804	1184	1022	1103
	Area	200	172	151	133	134
Nagpur	Prod.	77	204	172	108	224
	Yield	387	1183	1141	811	1672
	Area	276	304	274	355	384
Nanded	Prod.	87	102	190	493	521
	Yield	316	334	696	1390	1357
	Area	28	28	27	26	27
Nandurbar	Prod.	26	46	39	33	39
	Yield	949	1639	1439	1260	1450
	Area	60	69	67	71	75
Nashik	Prod.	70	103	138	65	75
	Yield	1164	1499	2039	916	1006

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Osmanabad	Area	91	102	115	214	230
	Prod.	15	28	79	118	277
	Yield	164	276	688	550	1205
Parbhani	Area	156	237	230	245	258
	Prod.	36	240	202	272	265
	Yield	231	1012	878	1111	1027
Pune	Area	16	18	20	20	22
	Prod.	47	38	41	33	18
	Yield	2919	2128	2022	1600	813
Sangli	Area	52	57	47	43	43
	Prod.	80	127	79	92	37
	Yield	1544	2216	1666	2163	857
Satara	Area	63	67	70	66	71
	Prod.	101	122	129	112	102
	Yield	1607	1813	1844	1708	1441
Solapur	Area	14	28	34	35	35
	Prod.	2	10	39	12	22
	Yield	169	367	1148	330	636
Wardha	Area	140	127	116	119	113
	Prod.	62	150	177	155	147
	Yield	440	1182	1528	1309	1304
Washim	Area	302	301	300	303	297
	Prod.	168	446	227	414	324
	Yield	556	1483	758	1369	1091
Yavatmal	Area	293	253	255	278	285
	Prod.	141	282	206	327	234
	Yield	481	1116	811	1179	822
Manipur						
Bishnupur	Area	1	1	1	1	
	Prod.	1	1	1	0.5	
	Yield	851	864	891	903	
Chandel	Area	0.4	0.4	0.4	0.4	
	Prod.	0.3	0.3	0.4	0.4	
	Yield	865	865	1014	995	
Churachandpur	Area	0.4	0.4	0.4	0.4	
	Prod.	0.3	0.3	0.4	0.4	
	Yield	793	798	889	874	
Imphal East	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	787	781	848	848	
Imphal West	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	853	867	899	899	
Senapati	Area	0.4	0.4	0.4	0.4	
	Prod.	0.3	0.3	0.4	0.4	
	Yield	859	869	949	946	
Tamenglong	Area	0.5	0.5	0.5	0.5	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Thoubal	Prod.	0.4	0.4	0.4	0.4	
	Yield	828	839	892	895	
	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	885	903	951	927	
	Area	0.4	0.4	0.4	0.4	
Ukhrul	Prod.	0.4	0.4	0.4	0.4	
	Yield	814	828	871	851	
Meghalaya						
East Garo Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	1065	1010	1010	1010	
East Jaintia Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
East Khasi Hills	Yield	1629	1479	1486	1493	
	Area	0.4	0.4	0.4	0.4	
	Prod.	0.4	0.4	0.5	0.5	
	Yield	1274	1201	1202	1204	
North Garo Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	1108	1056	1056	1055	
Ribhoi	Area	0.2	0.3	0.3	0.3	
	Prod.	0.3	0.3	0.3	0.3	
	Yield	1307	1250	1250	1253	
South Garo Hills	Area	0.02	0.02	0.02	0.02	
	Prod.	0.04	0.04	0.04	0.04	
	Yield	2056	2000	2000	2000	
South West Garo Hills	Area	0.1	0.1	0.1	0.1	
	Prod.	0.5	0.6	0.6	0.6	
	Yield	6170	5904	5905	5906	
South West Khasi Hills	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	1600	1333	1333	1286	
	Area	0.1	0.1	0.1	0.1	
West Garo Hills	Prod.	0.8	0.8	0.9	0.9	
	Yield	6118	5801	5803	5804	
	Area	1	1	1	1	
West Jaintia Hills	Prod.	1	1	1	1	
	Yield	1503	1450	1452	1453	
	Area	0.04	0.05	0.05	0.05	
West Khasi Hills	Prod.	0.05	0.05	0.05	0.05	
	Yield	1136	1111	1130	1128	
Mizoram						
Aizawl	Area	0.2	0.2	0.2	0.2	
	Prod.	0.4	0.3	0.3	0.2	
	Yield	1556	1513	1500	1484	
Champhai	Area	0.1	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Kolasib	Prod.	0.2	0.1	0.1	0.1	
	Yield	1101	1153	908	938	
	Area	0.1	0.1	0.1	0.1	
	Prod.	0.3	0.3	0.3	0.3	
	Yield	2347	2357	2369	2446	
	Area	0.1	0.1	0.1	0.1	
Lawngtlai	Prod.	0.1	0.1	0.2	0.1	
	Yield	1289	1289	1276	1478	
	Area	0.1	0.1	0.1	0.1	
Lunglei	Prod.	0.1	0.1	0.1	0.1	
	Yield	846	1000	1403	1474	
	Area	0.04	0.05	0.04	0.03	
Mamit	Prod.	0.08	0.08	0.05	0.04	
	Yield	1773	1708	1306	1265	
	Area	0.01	0.02	0.02	0.02	
Saiha	Prod.	0.01	0.02	0.01	0.01	
	Yield	929	1188	569	688	
	Area	0.3	0.3	0.3	0.4	
Serchhip	Prod.	0.5	0.5	0.5	0.8	
	Yield	1639	1648	1600	1949	
Nagaland						
Dimapur	Area	2	2	2	2	2
	Prod.	3	3	3	3	3
	Yield	1239	1243	1243	1243	1245
Kiphire	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1213	1231	1239	1252	1254
Kohima	Area	2	2	2	2	2
	Prod.	3	3	3	3	3
	Yield	1271	1274	1274	1274	1276
Longleng	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1217	1224	1231	1236	1240
Mokokchung	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1216	1223	1241	1241	1243
Mon	Area	3	3	3	3	3
	Prod.	4	4	4	4	4
	Yield	1255	1257	1257	1257	1260
Peren	Area	1	1	1	1	1
	Prod.	1	1	1	1	1
	Yield	1215	1234	1234	1250	1252
Phek	Area	2	2	2	2	2
	Prod.	3	3	3	3	3
	Yield	1270	1268	1268	1268	1270
Tuensang	Area	2	2	2	2	2
	Prod.	3	3	3	3	3

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Wokha	Yield	1241	1244	1238	1237	1239
	Area	2	2	2	2	2
	Prod.	2	2	2	2	2
Zunheboto	Yield	1211	1235	1252	1250	1252
	Area	8	8	8	8	8
	Prod.	10	10	10	10	10
Rajasthan						
Ajmir	Area	0.02	0.001	0.001	0.001	0.003
	Prod.	0.01	0.001	0.001	0.001	0.001
	Yield	684	1000	1000	1000	333
Banswara	Area	50	62	69	69	75
	Prod.	43	85	82	80	57
	Yield	858	1368	1190	1159	756
Baran	Area	274	236	154	186	250
	Prod.	156	247	210	230	134
	Yield	568	1043	1360	1235	537
Barmer	Area	0.002	-	-	-	-
	Prod.	0.001	-	-	-	-
	Yield	500	-	-	-	-
Bharatpur	Area	12	5	5	-	-
	Prod.	8	4	6	-	-
	Yield	677	812	1082	-	-
Bhilwara	Area	-	-	-	5	5
	Prod.	-	-	-	7	2
	Yield	-	-	-	1515	480
Bundi	Area	87	64	24	27	46
	Prod.	81	65	34	31	23
	Yield	931	1016	1421	1147	490
Chittorgarh	Area	144	118	117	106	103
	Prod.	80	96	97	139	43
	Yield	553	813	829	1314	417
Dholpur	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Dungarpur	Area	25	29	33	35	37
	Prod.	22	36	30	46	16
	Yield	884	1222	917	1319	437
Ganganagar	Area	0.004	-	-	-	-
	Prod.	0.003	-	-	-	-
	Yield	750	-	-	-	-
Hanumangar	Area	0.006	-	-	-	-
	Prod.	0.004	-	-	-	-
	Yield	667	-	-	-	-
Jaipur	Area	0.003	0.006	0.001	0.001	0.001
	Prod.	0.002	0.006	0.001	0.001	0.001
	Yield	667	1000	1000	1000	1000

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Jhalawar	Area	266	219	209	220	249
	Prod.	141	228	282	272	69
	Yield	529	1040	1349	1235	277
Jhunjhunu	Area	-	-	-	0.001	-
	Prod.	-	-	-	0.001	-
	Yield	-	-	-	1000	-
Jodhpur	Area	-	-	-	0.002	-
	Prod.	-	-	-	0.002	-
	Yield	-	-	-	1000	-
Karauli	Area	0.012	0.002	0.01	0.004	0.003
	Prod.	0.008	0.002	0.012	0.005	0.002
	Yield	667	1000	1200	1250	667
Kota	Area	194	165	121	128	180
	Prod.	145	168	151	151	116
	Yield	748	1016	1247	1177	642
Nagaur	Area	0.001	0.002	-	0.001	0.002
	Prod.	0.001	0.002	-	0.001	0.001
	Yield	1000	1000	-	1000	500
Pali	Area	0	0	0.01	0.01	0.01
	Prod.	0	0	0.02	0.01	0
	Yield	1000	1000	1214	1300	400
Pratapgarh	Area	128	130	130	129	139
	Prod.	110	174	155	180	45
	Yield	856	1332	1194	1388	326
Rajsamand	Area	0.06	0.1	0.2	0.4	0.5
	Prod.	0.04	0.1	0.2	0.5	0.2
	Yield	661	1079	1205	1254	469
Swami Manhopur	Area	11	11	5	2	2
	Prod.	11	16	6	2	2
	Yield	1040	1458	1106	1354	1236
Sikar	Area	-	0.002	-	0.007	-
	Prod.	-	0.002	-	0.009	-
	Yield	-	1000	-	1286	-
Sirohi	Area	-	0.004	0.002	-	-
	Prod.	-	0.004	0.003	-	-
	Yield	-	1000	1500	-	-
Tonk	Area	0.6	0.6	0.1	0	0.1
	Prod.	0.4	0.6	0.1	0.1	0.04
	Yield	668	957	1207	1261	467
Udaipur	Area	13	15	19	24	33
	Prod.	7	14	18	30	18
	Yield	580	952	911	1236	540
Sikkim						
East District	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	1000	1001	1001	1001	
North District	Area	0.3	0.3	0.3	0.3	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
South District	Prod.	0.3	0.3	0.3	0.3	
	Yield	861	867	871	870	
	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	985	985	985	987	
	Area	0.5	0.5	0.4	0.4	
West District	Prod.	0.5	0.5	0.4	0.4	
	Yield	952	952	953	954	
Telangana						
	Area	96	46	19	26	37
Adilabad	Prod.	96	62	30	41	67
	Yield	1000	1355	1542	1564	1804
	Area	-	0.02	0.004	0	0.002
Bhadradi Kothagudem	Prod.	-	0.02	0.01	0	0.003
	Yield	-	1158	1500	0	1500
	Area	-	6	3	1	1
Jagitial	Prod.	-	11	4	2	1
	Yield	-	1907	1394	1406	1662
Jangaon	Area	-	0.1	-	-	-
	Prod.	-	0.1	-	-	-
	Yield	-	1163	-	-	-
Jayashankar Bhupalapally	Area	-	0.1	-	-	-
	Prod.	-	0.1	-	-	-
	Yield	-	1169	-	-	-
Jogulamba Gadwal	Area	-	0.01	-	-	-
	Prod.	-	0.01	-	-	-
	Yield	-	1111	-	-	-
Kamareddy	Area	-	57	33	37	36
	Prod.	-	55	62	61	74
	Yield	-	975	1882	1664	2041
Karinagar	Area	9	0.12	0.01	0.01	-
	Prod.	12	0.23	0.01	0.01	-
	Yield	1278	1907	1600	1625	-
Khammam	Area	-	0.02	0.01	-	-
	Prod.	-	0.02	0.02	-	-
	Yield	-	1143	1636	-	-
Komaram Bheem Asifabad	Area	-	19	4	1	2
	Prod.	-	26	5	1	2
	Yield	-	1355	1351	1168	1191
Mahabubabad	Area	-	0.01	0.03	0.03	0.01
	Prod.	-	0.01	0.05	0.04	0.01
	Yield	-	1167	1633	1600	1833
Mahabubnagar	Area	-	0.04	0.02	-	0.002
	Prod.	-	0.05	0.04	-	0.004
	Yield	-	1159	1625	-	2000
Mancherial	Area	-	1	0.2	0.1	0.004
	Prod.	-	1	0.4	0.1	0.007

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Medak	Yield	-	1355	1623	1587	1750
	Area	26	3	0.2	0.02	0.4
	Prod.	25	3	0.3	0.02	1
Medchal	Yield	954	1062	1250	1438	1803
	Area	-	-	0.002	-	0.01
	Prod.	-	-	0.003	-	0.01
Nagarkurnool	Yield	-	-	1500	-	1800
	Area	-	0.04	-	-	-
	Prod.	-	0.04	-	-	-
Nalgonda	Yield	-	1162	-	-	-
	Area	-	0.1	-	-	-
	Prod.	-	0.1	-	-	-
Nirmal	Yield	-	1162	-	-	-
	Area	-	46	35	32	44
	Prod.	-	62	45	43	72
Nizamabad	Yield	-	1355	1281	1359	1633
	Area	110	58	41	33	27
	Prod.	117	56	74	61	58
Peddapalli	Yield	1067	975	1836	1831	2118
	Area	-	0.1	-	-	-
	Prod.	-	0.1	-	-	-
Rajanna Siricilla	Yield	-	1915	-	-	-
	Area	-	1	0.1	-	0.01
	Prod.	-	1	0.2	-	0.01
Rangareddy	Yield	-	1907	1620	-	1800
	Area	1	0.24	0.02	0.01	-
	Prod.	1	0.28	0.03	0.02	-
Sangareddy	Yield	1037	1165	1632	1615	-
	Area	-	37	16	16	23
	Prod.	-	39	24	23	34
Siddipet	Yield	-	1062	1504	1410	1458
	Area	-	1	0.2	0.05	0.01
	Prod.	-	1	0.3	0.07	0.02
Vikarabad	Yield	-	1062	1623	1587	1769
	Area	-	3	1	1	1
	Prod.	-	4	2	1	2
Wanaparthy	Yield	-	1166	1624	1709	2224
	Area	-	0.01	-	-	-
	Prod.	-	0.01	-	-	-
Warangal Rural	Yield	-	1143	-	-	-
	Area	0.2	0.2	0.02	0.03	0.04
	Prod.	0.2	0.3	0.04	0.05	0.07
Warangal Urban	Yield	1038	1167	1636	1581	1800
	Area	-	0.1	0.001	0.02	0.02
	Prod.	-	0.1	0.002	0.03	0.03
Yadadri Bhuvanagiri	Yield	-	1169	2000	1600	1778
	Area	-	0.1	0.01	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
	Prod.	-	0.2	0.01	-	-
	Yield	-	1165	1571	-	-
Tripura						
	Area	0.1	0.05	0.1	-	
	Prod.	0.1	0.04	0.1	-	
Dhalia	Yield	867	889	752	-	
	Area	0.02	0.1	0.1	0.01	
Gomati	Prod.	0.02	0.1	0.1	0.01	
	Yield	864	897	725	813	
	Area	0.04	0.03	0.06	0.04	
	Prod.	0.03	0.02	0.04	0.03	
Khowai	Yield	886	815	702	784	
	Area	0.03	0.03	0.05	0.01	
North Tripura	Prod.	0.03	0.02	0.04	0.01	
	Yield	882	846	745	773	
	Area	0.01	0.03	0.05	0.03	
	Prod.	0.01	0.03	0.04	0.02	
Sepahijala	Yield	875	862	712	713	
	Area	0.04	0.02	0.03	0	
South Tripura	Prod.	0.03	0.02	0.02	0	
	Yield	886	818	645	775	
	Area	0.04	0.02	0.03	0.01	
	Prod.	0.03	0.01	0.02	0.01	
Unakoti	Yield	850	800	719	809	
	Area	0.02	0.08	0.1	-	
West Tripura	Prod.	0.02	0.07	0.08	-	
	Yield	895	936	770	-	
Uttar Pradesh						
Bahraich	Area	0.004	0.05	0.05	0.05	0.05
	Prod.	0.001	0.03	0.04	0.05	0.03
	Yield	250	667	784	902	510
Banda	Area	0.03	0.03	0.02	0.03	0.03
	Prod.	0.01	0.02	0.02	0.03	0.01
	Yield	194	679	773	900	500
Bareilly	Area	0.01	-	-	-	-
	Prod.	0.002	-	-	-	-
	Yield	200	-	-	-	-
Chitrakoot	Area	-	0.1	0.1	0.1	0.1
	Prod.	-	0.04	0.05	0.06	0.03
	Yield	-	672	781	906	508
Hamirpur	Area	0.02	0.02	0.02	0.2	0.02
	Prod.	0.003	0.02	0.02	0.2	0.01
	Yield	167	667	792	898	524
Jalaun	Area	0.08	0.04	0.04	0.18	0.04
	Prod.	0.01	0.03	0.03	0.15	0.02
	Yield	173	628	773	874	512
Jhansi	Area	5	0.6	0.5	0.6	0.8

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Kanpur Dehat	Prod.	1	0.4	0.2	0.5	0.1
	Yield	175	647	340	875	83
	Area	0.01	0.05	0.05	0.05	0.05
	Prod.	0	0.03	0.04	0.04	0.03
	Yield	200	673	776	898	510
	Area	30	9	13	20	19
Lalitpur	Prod.	5	6	10	18	10
	Yield	175	675	793	902	531
	Area	-	-	-	-	-
Maharajganj	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	0.3	0.2	1	2
Mahoba	Prod.	-	0.2	0.2	1	1
	Yield	-	674	775	901	513
	Area	0.6	0.5	0.3	0.3	-
Pilibhit	Prod.	0.1	0.3	0.2	0.3	-
	Yield	174	673	776	903	-
	Area	0.08	0.1	0.04	0.04	0.1
Rampur	Prod.	0.02	0.07	0.03	0.03	0.05
	Yield	179	676	778	889	510
	Area	0.004	0.02	0.02	0.02	0.02
Shahjahanpur	Prod.	0.001	0.01	0.01	0.02	0.01
	Yield	250	667	778	889	500
	Area	0.5	0.3	0.4	0.5	
Uttarakhand						
Almora	Prod.	0.6	0.3	0.4	0.5	
	Yield	1059	870	932	1105	
	Area	0.1	0.1	0.1	0.1	
Bageshwar	Prod.	0.1	0.1	0.1	0.1	
	Yield	776	1013	1010	920	
	Area	0.5	0.4	0.6	0.6	
Chamoli	Prod.	0.4	0.4	0.6	0.7	
	Yield	918	917	928	1139	
	Area	0.6	0.9	1	0.6	
Champawat	Prod.	0.6	0.9	1	0.8	
	Yield	1087	1000	989	1376	
	Area	0.03	0.02	0.02	0.03	
Dehradun	Prod.	0.03	0.01	0.01	0.01	
	Yield	875	563	500	538	
	Area	7	7	6	5	
Nainital	Prod.	11	9	8	6	
	Yield	1583	1365	1395	1075	
	Area	0.5	0.4	0.3	0.3	
Pauri Garhwal	Prod.	0.4	0.2	0.2	0.1	
	Yield	800	500	510	524	
	Area	1	1	1	1	
Pithoragarh	Prod.	1	1	1	1	
	Area	1	1	1	1	

State / District		2015-16	2016-17	2017-18	2018-19	2019- 2020
Rudra Prayag	Yield	1088	1179	1271	1140	
	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.03	0.1	0.1	
Tehri Garhwal	Yield	813	516	522	526	
	Area	0.9	0.7	0.6	0.6	
	Prod.	0.8	0.4	0.4	0.5	
Udam Singh Nagar	Yield	950	522	681	898	
	Area	0.6	0.5	0.3	0.2	
	Prod.	0.7	0.7	0.5	0.3	
Uttar Kashi	Yield	1058	1365	1395	1324	
	Area	0.2	0.2	0.2	0.1	
	Prod.	0.2	0.2	0.2	0.1	
West Bengal	Yield	915	1048	984	927	
	Area	0.04	0.04	0.04	0.05	
	Prod.	0.02	0.02	0.02	0.1	
Birbhum	Yield	548	558	550	1907	
	Area	0.5	0.5	0.2	0.2	
	Prod.	0.4	0.4	0.2	0.2	
Darjeeling	Yield	750	756	800	800	
	Area	-	-	0.1	0.1	
	Prod.	-	-	0.2	0.1	
Kalimpong	Yield	-	-	1301	401	
	Area	0.01	0.02	-	-	
	Prod.	0.01	0.01	-	-	
Purba Bardhaman	Yield	769	800	-	-	
	Area	0.02	0.02	-	-	
	Prod.	0.01	0.01	-	-	
Purulia	Yield	412	389	-	-	

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

5.Sesame

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5.1 World Area, Production and Yield of Sesame

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Prodn.	Yield
2015	10083	5517	547
2016	10881	5592	514
2017	11134	5724	514
2018	11819	5938	502
2019	12822	6550	511

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

5.2 Area, Production and Yield of Sesame in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Afghanistan	Area	15	15	15	15	15.36
	Prodn.	32	32	32	32	33.14
	Yield	2133	2133	2133	2133	2158
Angola	Area	12	13	13	13	13
	Prodn.	3	3	3	3	3
	Yield	263	263	263	263	263
Bangladesh	Area	38	40	38	38	34
	Prodn.	36	37	34	35	32
	Yield	936	916	906	928	924
Benin	Area	12	11	11	12	12
	Prodn.	10	10	10	10	10
	Yield	833	909	909	833	833
Bolivia	Area	17	21	21	22	24
	Prodn.	10	11	12	14	16
	Yield	565	556	578	629	651
Brazil	Area	24	27	32	53	160
	Prodn.	18	20	24	41	128
	Yield	750	741	750	774	800
Burkina Faso	Area	400	282	291	439	618
	Prodn.	235	164	164	254	375
	Yield	587	580	563	579	607
Cambodia	Area	38	39	40	40	43
	Prodn.	28	29	30	30	33
	Yield	737	744	750	750	761
Cameroon	Area	48	52	50	54	54
	Prodn.	61	68	65	70	70
	Yield	1275	1313	1300	1296	1296
Central African Republic	Area	40	48	50	48	27
	Prodn.	10	12	12	10	7
	Yield	253	240	230	219	253
Chad	Area	306	279	298	325	350
	Prodn.	153	154	159	173	170

Country	Unit	2015	2016	2017	2018	2019
	Yield	499	551	533	531	486
China	Area	424	247	231	264	290
	Prodn.	452	353	370	433	469
	Yield	1066	1429	1600	1639	1619
Colombia	Area	6	3	4	5	6
	Prodn.	3	3	3	4	5
	Yield	549	1122	797	861	790
Congo	Area	1	1	1	1	1
	Prodn.	0.3	0.3	0.3	0.3	0.3
	Yield	453	443	440	437	433
Costa Rica	Area	0.3	0.3	0.3	0.3	0.3
	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	603	600	603	604	604
Côte d'Ivoire	Area	15	15	15	15	16
	Prodn.	3	3	3	3	3
	Yield	203	206	208	210	212
Democratic Republic of the Congo	Area	11	11	11	11	10
	Prodn.	5	5	5	5	5
	Yield	444	445	444	442	441
Egypt	Area	37	29	27	29	28
	Prodn.	50	40	36	36	38
	Yield	1361	1378	1365	1249	1357
El Salvador	Area	1	1	2	2	2
	Prodn.	1	1	1	2	2
	Yield	677	732	615	1000	1000
Eritrea	Area	26	28	30	31	32
	Prodn.	5	5	5	5	5
	Yield	185	185	177	169	162
Ethiopia	Area	388	338	370	295	375
	Prodn.	302	268	256	202	263
	Yield	779	793	691	684	700
Gambia	Area	3	4	4	4	4
	Prodn.	1	2	1	1	1
	Yield	377	373	372	375	379
Guatemala	Area	40	41	39	39	39
	Prodn.	61	56	39	38	38
	Yield	1522	1350	1000	974	974
Guinea	Area	5	8	7	8	8
	Prodn.	1	2	2	2	2
	Yield	220	250	230	219	219
Haiti	Area	15	15	15	15	15
	Prodn.	4	4	4	4	4
	Yield	271	272	272	273	273
Honduras	Area	1	1	1	1	2
	Prodn.	1	1	1	1	1
	Yield	885	896	909	897	889
India	Area	1947	1900	1667	1580	1420

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	850	747	747	755	689
	Yield	437	393	448	478	485
	Area	40	42	42	42	42
Iran (Islamic Republic of)	Prodn.	28	29	29	29	29
	Yield	700	691	691	691	691
	Area	2	3	4	2	4
Iraq	Prodn.	2	2	3	2	3
	Yield	936	875	934	891	787
	Area	0.2	0.2	0.2	0	0
Italy	Prodn.	0.3	0.3	0.3	0	0
	Yield	1594	1643	1678	0	0
	Area	26	26	25	25	25
Kenya	Prodn.	11	11	11	11	11
	Yield	417	418	419	419	420
	Area	14	13	13	13	13
Lao People's Democratic Republic	Prodn.	17	17	16	16	17
	Yield	1234	1254	1247	1246	1270
	Area	0	0	10	9	10
Malawi	Prodn.	0	0	3	3	3
	Yield	0	0	274	314	312
	Area	80	80	65	99	100
Mali	Prodn.	43	38	27	47	51
	Yield	545	470	414	472	514
	Area	79	90	76	79	82
Mexico	Prodn.	52	59	55	57	58
	Yield	653	660	721	728	706
	Area	1	1	1	1	1
Morocco	Prodn.	1	1	1	1	1
	Yield	1033	787	1193	1101	1101
	Area	106	117	120	140	130
Mozambique	Prodn.	64	60	78	108	95
	Yield	607	513	653	771	731
	Area	1511	1495	1478	1492	1505
Myanmar	Prodn.	828	813	764	715	745
	Yield	548	544	517	480	495
	Area	8	5	7	6	7
Nicaragua	Prodn.	5	2	4	4	10
	Yield	547	488	646	651	1429
	Area	76	130	117	191	209
Niger	Prodn.	34	67	49	90	98
	Yield	449	514	420	473	467
	Area	470	928	1013	693	587
Nigeria	Prodn.	433	594	632	480	480
	Yield	921	639	624	693	818
	Area	79	80	83	83	129
Pakistan	Prodn.	32	34	35	36	62
	Yield	405	425	425	428	484

Country	Unit	2015	2016	2017	2018	2019
Palestine	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.3	0.3	0.3	0.3	0.3
	Yield	737	770	763	764	756
Panama	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.2	0.2	0.2	0.3	0.3
	Yield	603	612	622	628	635
Paraguay	Area	63	55	55	30	40
	Prodn.	44	21	30	18	24
	Yield	695	390	550	600	600
Peru	Area	0.2	0.3	0.4	0.4	0.5
	Prodn.	0.2	0.2	0.3	0.4	0.4
	Yield	808	765	856	869	873
Republic of Korea	Area	25	27	30	25	25
	Prodn.	12	14	14	13	13
	Yield	465	500	480	514	516
Saudi Arabia	Area	2	2	2	2	2
	Prodn.	4	3	3	3	4
	Yield	1976	1440	1884	1889	2529
Senegal	Area	21	21	26	31	34
	Prodn.	10	12	13	19	24
	Yield	506	571	496	591	720
Sierra Leone	Area	6	6	7	7	7
	Prodn.	3	3	4	4	4
	Yield	544	531	524	518	512
Somalia	Area	80	82	80	80	80
	Prodn.	36	28	36	36	36
	Yield	450	342	450	450	450
South Sudan	Area	616	621	628	617	607
	Prodn.	190	203	205	207	208
	Yield	308	326	327	335	343
Sri Lanka	Area	16	14	9	12	6
	Prodn.	12	12	8	9	6
	Yield	750	884	855	723	1008
Sudan	Area	1450	2135	2704	3481	4244
	Prodn.	329	525	781	960	1210
	Yield	227	246	289	276	285
Syrian Arab Republic	Area	3	3	4	3	5
	Prodn.	2	2	3	3	4
	Yield	798	812	807	799	759
Tajikistan	Area	1	1	1	1	1
	Prodn.	1	1	1	1	2
	Yield	977	1136	1323	863	2121
Thailand	Area	42	44	45	45	45
	Prodn.	29	30	30	31	31
	Yield	685	682	667	689	689
Togo	Area	5	5	5	5	4
	Prodn.	2	2	2	2	1

Country	Unit	2015	2016	2017	2018	2019
	Yield	323	327	330	332	335
Turkey	Area	28	29	28	26	25
	Prodn.	19	20	18	17	17
	Yield	660	676	657	671	680
Uganda	Area	207	207	208	213	212
	Prodn.	145	135	146	144	144
	Yield	701	652	702	676	679
United Republic of Tanzania	Area	979	1010	850	900	940
	Prodn.	680	730	620	640	680
	Yield	695	723	729	711	723
Uzbekistan	Area	8	7	5	6	8
	Prodn.	6	8	6	10	14
	Yield	782	1082	1241	1619	1767
Venezuela	Area	91	58	54	49	45
	Prodn.	39	19	22	18	18
	Yield	426	323	414	372	386
Viet Nam	Area	55	51	37	29	29
	Prodn.	47	43	30	21	24
	Yield	844	859	803	731	820
Yemen	Area	22	22	21	24	21
	Prodn.	23	23	23	20	22
	Yield	1052	1051	1052	833	1049
Africa	Area	5426	6489	7035	7775	8737
	Prodn.	2821	3143	3328	3524	3998
	Yield	520	484	473	453	458
Americas	Area	346	317	306	302	423
	Prodn.	237	198	197	203	304
	Yield	684	625	643	671	719
Asia	Area	4310	4074	3792	3741	3661
	Prodn.	2458	2249	2198	2211	2247
	Yield	570	552	580	591	614
Europe	Area	1	1	1	0.04	0.04
	Prodn.	1	1	1	0.04	0.04
	Yield	1258	1226	1065	1000	1000
World	Area	10083	10881	11134	11819	12822
	Prodn.	5517	5592	5724	5938	6550
	Yield	547	514	514	502	511

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

5.3 All India Area, Production and Yield of Sesame

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Sesame over Total Area under Oilseeds
2015-16	1951	850	436	7
2016-17	1667	747	448	6
2017-18	1580	755	478	6

2018-19	1420	689	485
2019-20	1623	658	405

Source: Directorate of Economics & Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

5.4 State-wise Area, Production and Yield of Sesame in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	53	64	40	48	39
	Prod.	14	17	11	13	13
	Yield	264	266	274	269	343
Arunachal Pradesh	Area	2	2	2	2	2
	Prod.	1	2	2	2	2
	Yield	444	889	892	892	892
Assam	Area	12	12	12	12	12
	Prod.	8	8	8	8	9
	Yield	680	707	683	697	709
Bihar	Area	3	2	2	2	1
	Prod.	2	2	1	1	1
	Yield	868	877	877	873	876
Chhattisgarh	Area	19	20	25	21	15
	Prod.	7	8	8	7	7
	Yield	344	401	336	346	448
Gujarat	Area	164	150	123	98	166
	Prod.	64	78	73	49	108
	Yield	390	520	591	498	649
Haryana	Area	3	2	1	2	2
	Prod.	1	1	1	1	1
	Yield	382	400	615	615	565
Himachal Pradesh	Area	3	2	0.1	0.3	0.4
	Prod.	1	1	0.1	0.2	0.2
	Yield	346	355	450	450	500
Jammu and Kashmir	Area	4	6	4	4	4
	Prod.	2	3	2	2	2
	Yield	410	434	407	409	409
Jharkhand	Area	5	6	16	15	6
	Prod.	2	3	7	5	2
	Yield	354	485	414	350	381
Karnataka	Area	51	35	36	24	29
	Prod.	24	22	24	16	25
	Yield	471	629	660	665	864
Kerala	Area	0.2	0.2	0.2	0.4	0.2
	Prod.	0.0	0.1	0.1	0.2	0.1
	Yield	257	335	334	418	439
Madhya Pradesh	Area	365	380	424	248	315
	Prod.	180	165	187	139	126
	Yield	492	434	441	559	400
Maharashtra	Area	30	34	32	39	26

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	4	8	7	7	5
	Yield	133	233	211	167	200
	Area	2	2	2	2	2
Meghalaya	Prod.	2	2	2	2	2
	Yield	968	928	930	933	933
	Area	1	1	1	1	1
Mizoram	Prod.	1	1	0	1	1
	Yield	749	673	631	771	783
	Area	4	4	4	4	4
Nagaland	Prod.	2	2	2	2	2
	Yield	603	608	609	611	612
	Area	20	16	15	15	14
Odisha	Prod.	4	5	4	4	4
	Yield	207	306	279	235	291
	Area	0.1	0.1	0.1	0.1	0.2
Puducherry	Prod.	0.1	0.1	0.1	0.1	0.2
	Yield	760	987	1103	858	763
	Area	5	3	3	3	3
Punjab	Prod.	2	1	1	1	1
	Yield	340	367	344	273	363
	Area	367	267	252	242	280
Rajasthan	Prod.	115	93	68	84	92
	Yield	314	347	269	348	328
	Area	46	28	42	45	53
Tamil Nadu	Prod.	29	11	23	24	36
	Yield	634	384	555	548	688
	Area	14	21	16	18	21
Telangana	Prod.	3	15	9	12	13
	Yield	214	714	547	677	636
	Area	4	6	7	7	7
Tripura	Prod.	2	3	4	4	4
	Yield	580	586	590	622	636
	Area	546	370	278	327	356
Uttar Pradesh	Prod.	166	79	82	74	66
	Yield	304	214	295	226	184
	Area	2	2	2	2	2
Uttarakhand	Prod.	1	1	1	1	1
	Yield	271	500	293	298	301
	Area	227	233	241	240	263
West Bengal	Prod.	214	217	229	231	135
	Yield	941	933	949	961	512
	Area	-	-	-	--	--
Others	Prod.	-	-	-	--	--
	Yield	-	-	-	--	--
	Area	1951	1667	1580	1420	1623
India	Prod.	850	747	755	689	657
	Yield	436	448	478	485	405

5.5 District-wise Area, Production and Yield of Sesame in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Andaman & Nicobar Islands						
North & Middle Andaman	Area	0.035	0.004	-	-	-
	Prod.	0.007	0.001	-	-	-
	Yield	200.0	250.0	-	-	-
Andhra Pradesh						
Ananthapur	Area	-	-	0.01	0.01	0.01
	Prod.	-	-	0.00	0.01	0.01
	Yield	-	-	222	545	556
Chittoor	Area	0.4	1.1	0.4	1.2	1.0
	Prod.	0.2	0.5	0.2	0.7	0.3
	Yield	489	422	456	588	310.0
East Godavari	Area	3	3	3	2	2.1
	Prod.	0.8	0.5	0.4	0.4	0.4
	Yield	293	176	141	152	196
Guntur	Area	4	3	2	2	0.7
	Prod.	0.6	1.1	0.7	0.9	0.3
	Yield	170	425	405	420	446
Kadapa	Area	6	5	3	4	8
	Prod.	3	2.0	2	3	5.1
	Yield	505	431	508	647	656
Krishna	Area	0.4	0.2	0.3	0.5	0.5
	Prod.	0.2	0.0	0.1	0.1	0.1
	Yield	420	153	226	172	162
Kurnool	Area	0.6	0.2	1.0	0.6	1.0
	Prod.	0.2	0.1	0.3	0.1	0.3
	Yield	330	310	288	243	261
Prakasam	Area	10.2	16	7	5	5
	Prod.	2	3	2	0.8	2
	Yield	223	172	251	159	436
SPSR Nellore	Area	2	10	0.9	3	2
	Prod.	0.7	3	0.2	0.4	0.5
	Yield	327	334	211	135	251
Srikakulam	Area	5.1	4	8	8	8
	Prod.	1.0	0.8	2	1	2
	Yield	205.0	229	195	153	202.0
Visakhapatnam	Area	6.5	5.3	4.8	6	3
	Prod.	1.4	1	1	1	0.7
	Yield	216	240	245	242	220
Vizianagaram	Area	15	16	10	15	8
	Prod.	4	4	3	4.0	1.9
	Yield	251	234	295	270.0	242
West Godavari	Area	0.6	0.5	0.4	0.4	0.2
	Prod.	0.2	0.2	0.1	0.1	0.1
	Yield	374	285	299	307.0	346

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Arunachal Pradesh						
Anjaw	Area	-	0.06	0.05	0.05	
	Prod.	-	0.01	0.01	0.01	
	Yield	-	177	277	277	
Changlang	Area	-	0.1	0.2	0.2	
	Prod.	-	0.04	0.2	0.1	
	Yield	-	427	868	548	
Dibang Valley	Area	-	0.1	0.04	0.04	
	Prod.	-	0.03	0.03	0.03	
	Yield	-	426	795	795	
East Kameng	Area	-	0.4	0.3	0.3	
	Prod.	-	0.2	0.3	0.3	
	Yield	-	690	809	809	
East Siang	Area	-	0.1	0.1	0.1	
	Prod.	-	0.2	0.1	0.1	
	Yield	-	1290	921	908	
Kamle	Area	-	-	-	0.04	
	Prod.	-	-	-	0.04	
	Yield	-	-	-	1000	
Kra Daadi	Area	-	0.1	0.03	0.03	
	Prod.	-	0.1	0.04	0.04	
	Yield	-	991	1333	1333	
Kurung Kumey	Area	-	0.1	0.03	0.03	
	Prod.	-	0.1	0.01	0.01	
	Yield	-	981	241	241	
Lohit	Area	-	0.1	0.1	0.1	
	Prod.	-	0.03	0.03	0.03	
	Yield	-	309.0	323	323	
Lower Dibang Valley	Area	-	0.2	0.3	0.3	
	Prod.	-	0.2	0.4	0.4	
	Yield	-	965	1097	1097	
Lower Siang	Area	-	-	-	0.1	
	Prod.	-	-	-	0.1	
	Yield	-	-	-	1685	
Lower Subansiri	Area	-	0.1	0.05	0.04	
	Prod.	-	0.1	0.02	0.02	
	Yield	-	2018	288	375	
Namsai	Area	-	0.2	0.3	0.3	
	Prod.	-	0.2	0.3	0.3	
	Yield	-	1044	1064	1064	
Papum Pare	Area	-	0.2	0.1	0.1	
	Prod.	-	0.2	0.1	0.1	
	Yield	-	872	638	638	
Siang	Area	-	0.07	0.04	0.04	
	Prod.	-	0.02	0.10	0.10	
	Yield	-	216	2538	2538	
Upper Siang	Area	-	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Upper Subansiri	Prod.	-	0.2	0.0	0.0	
	Yield	-	1398	256	256	
	Area	-	0.2	0.1	0.1	
	Prod.	-	0.2	0.2	0.2	
	Yield	-	1400	1472	1467	
	Area	-	0.04	0.05	0.05	
West Siang	Prod.	-	0.02	0.02	0.02	
	Yield	-	349	378	378	
	Area	-	0.04	0.05	0.05	
Assam						
Baksa	Area	0.3	0.3	0.3	0.3	
	Prod.	0.2	0.2	0.2	0.2	
	Yield	647	728	741	730	
Barpeta	Area	0.7	0.7	0.7	0.7	
	Prod.	0.5	0.5	0.5	0.5	
	Yield	735	716	721	726	
Bongaigaon	Area	0.3	0.3	0.3	0.3	
	Prod.	0.1	0.2	0.1	0.2	
	Yield	551	595	469	637	
Cachar	Area	0.2	0.2	0.1	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	517	509.0	514	553	
Chirang	Area	0.4	0.5	0.6	0.5	
	Prod.	0.2	0.4	0.4	0.3	
	Yield	560	710	578	600	
Darrang	Area	0.7	0.7	0.8	0.7	
	Prod.	0.5	0.5	0.5	0.4	
	Yield	723	647	638	642	
Dhemaji	Area	0.07	0.07	0.06	0.07	
	Prod.	0.04	0.04	0.04	0.02	
	Yield	631	621	625	258	
Dhubri	Area	0.6	0.6	0.6	0.6	
	Prod.	0.5	0.4	0.5	0.5	
	Yield	751	742	743	739	
Dibrugarh	Area	0.04	0.04	0.04	0.04	
	Prod.	0.02	0.02	0.02	0.03	
	Yield	538	537	537	707.0	
Dima Hasao	Area	1.0	1.0	1.0	1.0	
	Prod.	0.7	0.7	0.6	0.6	
	Yield	638	692	614	630	
Goalpara	Area	0.5	0.3	0.3	0.3	
	Prod.	0.3	0.2	0.2	0.3	
	Yield	580	600	800	799	
Golaghat	Area	0.3	0.3	0.3	0.3	
	Prod.	0.2	0.2	0.2	0.2	
	Yield	596	599	587	586	
Hailakandi	Area	0.04	0.04	0.01	0.03	
	Prod.	0.02	0.02	0.01	0.02	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Jorhat	Yield	381	537	417	613	
	Area	0.06	0.07	0.06	0.13	
	Prodn.	0.04	0.04	0.04	0.09	
Kamrup	Yield	645	646	655	677	
	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.1	0.2	0.2	0.2	
Kamrup Metro	Yield	594	600.0	600.0	600.0	
	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.0	0.1	
Karbi Anglong	Yield	543	606.0	605.0	586	
	Area	3.1	3.1	3	3	
	Prodn.	2	2	3	3	
Karimganj	Yield	755	793	793	784	
	Area	0.02	0.02	0.02	0.02	
	Prodn.	0.01	0.01	0.01	0.01	
Kokrajhar	Yield	438	600.0	813	600.0	
	Area	0.6	0.6	0.5	0.5	
	Prodn.	0.4	0.4	0.4	0.4	
Lakhimpur	Yield	760.0	740.0	736	763	
	Area	0.1	0.3	0.4	0.3	
	Prodn.	0.1	0.2	0.3	0.2	
Marigaon	Yield	648	635	724	529	
	Area	0.3	0.2	0.3	0.2	
	Prodn.	0.2	0.1	0.1	0.2	
Nagaon	Yield	581	579	590.0	850.0	
	Area	1.0	0.8	1.0	0.8	
	Prodn.	0.6	0.6	0.4	0.4	
Nalbari	Yield	601.0	665	448	450.0	
	Area	0.3	0.2	0.2	0.2	
	Prodn.	0.2	0.1	0.2	0.1	
Sivasagar	Yield	689	650.0	649	651	
	Area	0.04	0.04	0.04	0.03	
	Prodn.	0.03	0.02	0.03	0.02	
Sonitpur	Yield	714	686	658	636	
	Area	0.6	0.9	0.8	0.7	
	Prodn.	0.4	0.7	0.6	0.5	
Tinsukia	Yield	755	775	801.0	777	
	Area	0.11	0.08	0.09	0.09	
	Prodn.	0.06	0.04	0.05	0.05	
Udalguri	Yield	487	506.0	529	538	
	Area	0.2	0.3	0.2	0.2	
	Prodn.	0.1	0.2	0.1	0.2	
Bihar	Yield	611	641	638	945	
	Area	0.01	0.02	-	-	-
	Prodn.	0.01	0.02	-	-	-
Araria	Yield	917	882	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Arwal	Area	0.02	0.02	0.01	0.17	0.03
	Prod.	0.02	0.01	0.01	0.15	0.02
	Yield	1063.0	875	857	885	920.0
Aurangabad	Area	0.05	0.01	0.01	0.00	0.01
	Prod.	0.05	0.02	0.01	0.00	0.01
	Yield	1000.0	1667	889	1000.0	889
Banka	Area	-	-	0.02	0.02	0.01
	Prod.	-	-	0.02	0.02	0.01
	Yield	-	-	850	850	900
Begusarai	Area	0.02	0.02	0.02	0.01	0.02
	Prod.	0.02	0.02	0.02	0.01	0.02
	Yield	875	905.0	870.0	846	864
Bhagalpur	Area	0.01	0.01	0.01	0.01	0.01
	Prod.	0.01	0.01	0.01	0.01	0.01
	Yield	846	846	909.0	917	917
Bhojpur	Area	0.03	-	-	-	-
	Prod.	0.03	-	-	-	-
	Yield	871	-	-	-	-
Darbhanga	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Gaya	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	870.0	866	883	881	887.1
Gopalganj	Area	-	-	-	0.01	-
	Prod.	-	-	-	0.01	-
	Yield	-	-	-	900.0	-
Jamui	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Jehanabad	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Katihar	Area	-	0.002	-	0.2	0.1
	Prod.	-	0.002	-	0.1	0.1
	Yield	-	1000	-	869	880
Khagaria	Area	0.02	0.02	0.02	0.02	-
	Prod.	0.02	0.01	0.02	0.01	-
	Yield	882	875	882	875	-
Kishanganj	Area	0.2	0.2	0.2	0.3	0.3
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	865	866	872	869	869
Madhepura	Area	0.05	0.05	0.04	0.04	0.04
	Prod.	0.04	0.04	0.04	0.04	0.04
	Yield	840.0	889	881	875	875
Madhubani	Area	0.2	0.03	0.2	0.03	0.03
	Prod.	0.2	0.03	0.1	0.03	0.03

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Muzaffarpur	Yield	872	862	887	893	867
	Area	0.02	0.03	0.01	0.01	0.02
	Prodn.	0.01	0.03	0.01	0.01	0.01
Nalanda	Yield	824	867	857	857	867
	Area	-	-	0.00	0.01	0.01
	Prodn.	-	-	0.004	0.004	0.005
Nawada	Yield	-	-	1000	800	833
	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
Pashchim Champaran	Yield	864	859	875	870.0	876
	Area	0.06	0.05	0.05	0.05	-
	Prodn.	0.05	0.05	0.04	0.04	-
Patna	Yield	857	868	870.0	867	-
	Area	0.014	0.005	-	-	0.001
	Prodn.	0.012	0.004	-	-	0.001
Purbi Champaran	Yield	857	800	-	-	1000
	Area	0.1	0.1	-	-	-
	Prodn.	0.1	0.1	-	-	-
Purnia	Yield	812	892	-	-	-
	Area	0.038	0.041	0.026	0.027	0.001
	Prodn.	0.033	0.036	0.023	0.024	0.001
Rohtas	Yield	868	878	885	889	1000
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
Saharsa	Yield	-	-	-	-	-
	Area	0.002	0.002	0.002	0.003	0.003
	Prodn.	0.002	0.002	0.002	0.003	0.003
Samastipur	Yield	1000	1000	1000	1000	1000
	Area	0.6	0.4	0.4	0.4	0.3
	Prodn.	0.5	0.3	0.3	0.3	0.3
Saran	Yield	868	866	875	875	875
	Area	0.1	-	-	-	-
	Prodn.	0.1	-	-	-	-
Sheikhpura	Yield	879	-	-	-	-
	Area	0.008	0.003	-	-	-
	Prodn.	0.007	0.003	-	-	-
Sheohar	Yield	875	1000.0	-	-	-
	Area	0.1	0.1	0.1	0.06	0.04
	Prodn.	0.1	0.1	0.1	0.05	0.03
Sitamarhi	Yield	857	902.0	881	855	872
	Area	0.04	0.04	0.04	0.04	0.04
	Prodn.	0.04	0.04	0.04	0.04	0.04
Siwan	Yield	864	864	864	857	857
	Area	0.01	0.01	0.01	0.01	0.01
	Prodn.	0.01	0.01	0.01	0.01	0.01
Supaul	Yield	889	857	857	857	857
	Area	0.9	0.7	0.2	0.1	0.1

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Vaishali	Prod.	0.8	0.6	0.2	0.1	0.1
	Yield	865	869	878	876	885.1
	Area	0.03	0.02	0.05	0.05	-
	Prod.	0.02	0.02	0.05	0.01	-
	Yield	880	900	885	216	-
Chhattisgarh						
Balod	Area	0.2	0.2	0.1	0.1	
	Prod.	0.1	0.1	0.0	0.0	
	Yield	352	393	300.0	321	
Baloda Bazar	Area	0.8	0.7	0.7	0.4	
	Prod.	0.3	0.3	0.2	0.1	
	Yield	388	377	241	265	
Balrampur	Area	3	3	3.0	3.0	
	Prod.	1	1	0.9	1.0	
	Yield	401.0	374	287	314	
Bastar	Area	0.19	0.20	0.13	0.09	
	Prod.	0.10	0.11	0.05	0.04	
	Yield	522	520.0	409.0	462	
Bemetara	Area	0.08	0.03	0.03	0.05	
	Prod.	0.03	0.01	0.01	0.02	
	Yield	325	367	313	327	
Bijapur	Area	0.08	0.03	0.02	0.02	
	Prod.	0.03	0.01	0.004	0.01	
	Yield	325	367	174	250.0	
Bilaspur	Area	0.5	0.5	0.5	0.4	
	Prod.	0.2	0.2	0.2	0.1	
	Yield	414	411	313	380.0	
Dantewada	Area	0.03	0.04	0.03	0.03	
	Prod.	0.01	0.02	0.01	0.01	
	Yield	303.0	405.0	194	353	
Dhamtari	Area	0.4	0.1	0.1	0.1	
	Prod.	0.2	0.1	0.04	0.04	
	Yield	480.0	477	366	330.0	
Durg	Area	0.11	0.10	0.05	0.2	
	Prod.	0.04	0.04	0.01	0.1	
	Yield	387	420.0	280.0	315	
Gariyaband	Area	0.3	0.2	0.1	0.1	
	Prod.	0.1	0.1	0.03	0.04	
	Yield	343	337	239	302.0	
Janjgir-Champa	Area	0.5	0.5	0.4	0.4	
	Prod.	0.2	0.3	0.1	0.2	
	Yield	462	484	343	381	
Jashpur	Area	0.3	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	367	371	348	374	
Kabirdham	Area	0.5	0.5	0.3	0.3	
	Prod.	0.2	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Kanker	Yield	353	263	246	202.0	
	Area	0.8	0.7	0.2	0.2	
	Prodn.	0.3	0.5	0.1	0.1	
Kondagaon	Yield	388	660.0	465	507.0	
	Area	0.2	0.2	0.2	0.2	
	Prodn.	0.1	0.1	0.1	0.1	
Korba	Yield	448	603.0	371	441	
	Area	2	2	2	1	
	Prodn.	0.5	0.5	0.4	0.4	
Korea	Yield	293	351	270.0	275	
	Area	1.1	1.2	1.2	1.3	
	Prodn.	0.3	0.4	0.3	0.4	
Mahasamund	Yield	285	364	279	316	
	Area	0.5	0.4	0.3	0.3	
	Prodn.	0.2	0.2	0.1	0.1	
Mungeli	Yield	432	434	333	365	
	Area	0.1	0.1	0.02	0.01	
	Prodn.	0.043	0.022	0.006	0.003	
Narayanpur	Yield	398	415	261	375	
	Area	0.02	0.02	0.02	0.03	
	Prodn.	0.01	0.01	0.01	0.01	
Raigarh	Yield	412	417	474	467	
	Area	3	2	2	3	
	Prodn.	2	1	1.0	1.1	
Raipur	Yield	535	534	397	434	
	Area	0.3	0.3	0.3	0.2	
	Prodn.	0.2	0.2	0.1	0.1	
Rajnandgaon	Yield	476	480.0	315	437	
	Area	1.5	1.4	1.4	1.3	
	Prodn.	0.6	0.6	0.4	0.5	
Sukma	Yield	383	401.0	274	361	
	Area	2	2	2.1	2	
	Prodn.	0.7	0.7	0.5	0.6	
Surajpur	Yield	357	376	245	321	
	Area	1	2	2	2	
	Prodn.	0.4	0.5	0.4	0.5	
Surguja	Yield	282	313	289	347	
	Area	0.3	0.2	0.3	0.3	
	Prodn.	0.1	0.1	0.1	0.1	
Dadra & Nagar Haveli	Yield	434	402.0	288	367	
	Area	-	0.006	-	0.006	
	Prodn.	-	0.002	-	0.002	
Gujarat	Yield	-	333	-	333	
	Area	1.4	1.4	0.9	0.5	0.007
	Prodn.	0.5	0.7	0.4	0.3	0.003

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Amreli	Yield	355	532	451	539	384.2
	Area	7	7	6	5	0.1
	Prodn.	4	5	4	2	0.1
Anand	Yield	476	622	625	492	961.0
	Area	0.3	0.2	0.1	0.04	-
	Prodn.	0.1	0.1	0.1	0.02	-
Aravalli	Yield	383	531	604.0	474	-
	Area	0.9	1.0	0.5	0.5	0.006
	Prodn.	0.4	0.5	0.2	0.3	0.004
Banas Kantha	Yield	383	516	507.0	523	672.6
	Area	6.1	10.7	3	7	0.02
	Prodn.	0.7	4	1	2	0.01
Bharuch	Yield	111	394	429	279	524.4
	Area	0.3	0.5	0.4	0.4	0.004
	Prodn.	0.02	0.2	0.2	0.2	0.003
Bhavnagar	Yield	81	533	605.0	420.0	579.0
	Area	6	9	10.1	10	0.1
	Prodn.	2	9	8	9	0.1
Botad	Yield	330.0	966	805.0	927	853
	Area	6	6	-	5	0.1
	Prodn.	2	4.1	-	4	0.04
Chhotaudepur	Yield	348	690.0	-	694	476.9
	Area	0.3	0.1	0.5	0.2	0.01
	Prodn.	0.1	0.1	0.3	0.1	0.01
Devbhumi Dwarka	Yield	451	477	547	471	549.8
	Area	7	8	5	4.1	0.1
	Prodn.	2	5.1	3	1	0.03
Dohad	Yield	265	607	594	332	478.2
	Area	0.4	0.1	0.2	0.3	0.001
	Prodn.	0.1	0.1	0.1	0.1	0.001
Gandhinagar	Yield	384	536	604.0	460.0	864.3
	Area	0.4	0.4	0.3	0.7	0.002
	Prodn.	0.2	0.2	0.2	0.3	0.001
Gir Somnath	Yield	393	534	605.0	462	512
	Area	0.1	0.8	2	1	0.03
	Prodn.	0.05	0.9	3	1	0.02
Jamnagar	Yield	383	1022.0	1173	1271	599
	Area	9.04	4.6	5	2	0.1
	Prodn.	3	3	4.1	1	0.04
Junagadh	Yield	309.00	746	748	459	680
	Area	1	4	5.1	5.7	0.1
	Prodn.	0.6	4	5	3	0.1
Kachchh	Yield	457	1056.0	981	601.0	1016.8
	Area	54.9	49	50	17	0.005
	Prodn.	13.0	24.6	29	4	0.002
Kheda	Yield	237	506.0	577	264	540
	Area	1	1	0.5	0.3	0.6

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
	Prod.	0.5	0.7	0.3	0.2	0.3
	Yield	416	527	593	492	529.6
	Area	3	4	3	2	0.02
Mahesana	Prod.	0.6	2	2.1	0.8	0.01
	Yield	186	375	696	430.0	462.9
	Area	0.9	0.6	0.5	0.4	-
Mahisagar	Prod.	0.4	0.3	0.3	0.2	-
	Yield	384	534	606.0	461	-
	Area	18	13	5	10.6	0.1
Morbi	Prod.	13	9	3	5	0.03
	Yield	738	724	700.0	496	318.1
	Area	0.2	0.05	0.02	0.11	-
Narmada	Prod.	0.1	0.02	0.01	0.04	-
	Yield	376	383	381	387	-
	Area	-	0.002	-	-	-
Navsari	Prod.	-	0.001	-	-	-
	Yield	-	500.0	-	-	-
	Area	0.8	0.7	0.5	0.3	0.002
Panch Mahals	Prod.	0.3	0.3	0.3	0.2	0.001
	Yield	424	472	561	610.0	526.1
	Area	0.4	0.9	2	1.1	0.009
Patan	Prod.	0.1	0.5	1	0.5	0.003
	Yield	233	596	606.0	460.0	347
	Area	0.07	1	0.5	-	0.05
Porbandar	Prod.	0.03	0.9	0.4	-	0.04
	Yield	386	643	724	-	898
	Area	0.8	3	2	2	0.1
Rajkot	Prod.	0.2	2	2	1.0	0.1
	Yield	290	650	1003	532	1270
	Area	1	0.8	0.3	0.1	0.0
Sabar Kantha	Prod.	0.4	0.4	0.2	0.0	0.0
	Yield	383	526	563	451	535
	Area	0.3	0.3	0.3	0.3	0.0
Surat	Prod.	0.2	0.1	0.1	0.2	0.0
	Yield	576	462	496	660.0	669
	Area	23.1	19.5	13	21	0.2
Surendranagar	Prod.	7	9	7	9	0.1
	Yield	313	476	508.0	439	561.2
	Area	0.01	0.01	-	-	-
Tapi	Prod.	0.005	0.003	-	-	-
	Yield	500	600	-	-	-
	Area	0.1	0.2	0.02	0.2	-
Vadodara	Prod.		0.1	0.01	0.1	-
	Yield	0.04	460.0	500.0	550.0	486
	Area	0.004	0.007	-	-	-
Valsad	Prod.	0.002	0.004	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
	Yield	500.0	571	-	-	-
Haryana						
Bhiwani	Area	0.3	0.2	0.2		
	Prodn.	0.1	0.1	0.1		
	Yield	333	500.0	500.0		
Charki Dadri	Area	0.0	0.0	0.0		
	Prodn.	0.0	0.0	0.0		
	Yield	0.0	0.0	0.0		
Faridabad	Area	0.0	0.0	0.0		
	Prodn.	0.0	0.0	0.0		
	Yield	0.0	0.0	0.0		
Gurgaon	Area	0.8	0.4	0.5		
	Prodn.	0.4	0.3	0.2		
	Yield	500.0	750.0	400.0		
Hisar	Area	0.2	0.2	0.1		
	Prodn.	0.1	0.1	0.1		
	Yield	500.0	500.0	1000.0		
Jhajjar	Area	0.3	0.1	0.1		
	Prodn.	0.1	0.0	0.0		
	Yield	333	200.0	0.0		
Jind	Area	0.0	0.0	0.0		
	Prodn.	0.0	0.0	0.0		
	Yield	0.0	0.0	0.0		
Mewat	Area	0.5	0.3	0.2		
	Prodn.	0.2	0.2	0.1		
	Yield	400.0	667	500.0		
Palwal	Area	0.2	0.1	0.1		
	Prodn.	0.1	0.1	0.1		
	Yield	500.0	1000.0	1000.0		
Rewari	Area	0.8	0.2	0.2		
	Prodn.	0.4	0.4	0.1		
	Yield	500.0	2000.0	500.0		
Rohtak	Area	0.1	0.0	0.0		
	Prodn.	0.0	0.0	0.0		
	Yield	200.0	0.0	0.0		
Sirsa	Area	0.1	0.1	0.1		
	Prodn.	0.1	0.1	0.0		
	Yield	1000.0	1000.0	0.0		
Yamunanagar	Area	0.1	0.0	0.0		
	Prodn.	0.1	0.0	0.0		
	Yield	1000.0	0.0	0.0		
Himachal Pradesh						
Bilaspur	Area	0.0	0.1	0.0	0.1	
	Prodn.	0.00	0.04	0.00	0.03	
	Yield	286	429	429	437	
Chamba	Area	0.005	0.015	0.005	0.025	
	Prodn.	0.001	0.007	0.002	0.010	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Hamirpur	Yield	200.0	467	400.0	400.0	
	Area	0.004	0.004	0.004	0.007	
	Prodn.	0.001	0.001	0.002	0.003	
	Yield	250.0	250.0	500.0	429	
Kangra	Area	0.0	2	0.03	0.1	
	Prodn.	0.0	0.7	0.02	0.0	
	Yield	424	319	545	514	
Mandi	Area	0.011	0.014	0.011	0.011	
	Prodn.	0.005	0.003	0.006	0.006	
	Yield	455	214	545	545	
Shimla	Area	0.01	0.01	0.01	0.01	
	Prodn.	0.003	0.002	0.004	0.003	
	Yield	333	222	444	375	
Sirmaur	Area	0.007	0.017	0.007	0.029	
	Prodn.	0.002	0.008	0.003	0.012	
	Yield	286	471	429	414	
Solan	Area	0.02	0.11	0.02	0.02	
	Prodn.	0.01	0.03	0.01	0.01	
	Yield	333	303.0	429	429	
Una	Area	0.03	0.17	0.03	0.08	
	Prodn.	0.01	0.04	0.01	0.04	
	Yield	267	232	367	434	
Jammu & Kashmir						
Ganderbal	Area	-	2	-	-	
	Prodn.	-	0.8	-	-	
	Yield	-	500.0	-	-	
Jammu	Area	2	0.5	0.4	0.5	
	Prodn.	1.0	0.2	0.2	0.2	
	Yield	437	411	410	411	
Kathua	Area	0.4	1.1	2	2	
	Prodn.	0.1	0.4	0.6	0.7	
	Yield	277	402	402	402	
Leh Ladakh	Area	0.0	-	-	-	
	Prodn.	0.0	-	-	-	
	Yield	1000	-	-	-	
Rajauri	Area	-	0.03	0.1	0.1	
	Prodn.	-	0.01	0.04	0.1	
	Yield	-	500	507	505	
Reasi	Area	0.05	0.03	0.02	0.01	
	Prodn.	0.02	0.02	0.01	0.01	
	Yield	500	500	522	500	
Samba	Area	1.1	2	2	1.8	
	Prodn.	0.4	0.9	0.8	0.8	
	Yield	402	437	437	437	
Udhampur	Area	0.002	0.4	0.4	0.4	
	Prodn.	0.001	0.1	0.1	0.1	
	Yield	500	277	275	277	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Jharkhand						
Bokaro	Area	-	0.1	0.1	0.1	0.7
	Prodn.	-	0.03	0.04	0.04	0.4
	Yield	-	306	420	420	600
Chatra	Area	0.3	0.1	0.3	0.4	0.4
	Prodn.	0.1	0.03	0.1	0.1	0.1
	Yield	319	345	359	360	381
Deoghar	Area	0.069	0.047	0.029	0.009	0.047
	Prodn.	0.024	0.016	0.010	0.003	0.016
	Yield	348	340	345	333	340
Dhanbad	Area	0.2	0.3	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.03	0.02
	Yield	440	440	437	446	396
Dumka	Area	0.5	0.6	3	2	1.0
	Prodn.	0.2	0.2	1	1	0.6
	Yield	400	400	521	565	625
East Singhbhum	Area	0.1	0.2	0.4	0.4	0.3
	Prodn.	0.1	0.1	0.2	0.1	0.1
	Yield	451.6	300.0	480.0	301.0	300.0
Garhwa	Area	2	-	3	2	2
	Prodn.	0.2	-	0.6	0.4	0.4
	Yield	155	-	205	245	245
Giridhi	Area	-	0.063	0.021	0.005	0.052
	Prodn.	-	0.035	0.013	0.003	0.033
	Yield	-	556	619	600.0	635
Godda	Area	0.3	0.4	0.4	0.3	0.2
	Prodn.	0.1	0.1	0.2	0.1	0.1
	Yield	401	399	401	406	391
Hazaribagh	Area	0.002	0.4	0.1	0.3	-
	Prodn.	0.001	0.1	0.1	0.1	-
	Yield	500	311	438	442	-
Jamtara	Area	-	-	-	0.05	0.1
	Prodn.	-	-	-	0.02	0.0
	Yield	-	-	-	404	345
Khunti	Area	0.11	0.00	0.07	0.3	-
	Prodn.	0.01	0.00	0.02	0.1	-
	Yield	114	0	301	401	-
Koderma	Area	0.03	0.12	0.3	0.2	0.2
	Prodn.	0.01	0.04	0.1	0.1	0.1
	Yield	310	322	400	402	397
Latehar	Area	0.1	0.6	0.6	0.6	0.5
	Prodn.	0.01	0.1	0.1	0.1	0.1
	Yield	214	220	223	221	221
Pakur	Area	0.5	0.4	0.6	0.4	0.4
	Prodn.	0.2	0.2	0.2	0.1	0.1
	Yield	352	501	311	211	311
Palamu	Area	0.6	-	5	5	0.5

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	Prod.	0.3	-	2	1	0.2
	Yield	452	-	452	300	450
	Area	0.02	0.07	0.08	0.3	-
Ramgarh	Prod.	0.01	0.02	0.03	0.1	-
	Yield	333	323	436	440	-
	Area	0.1	0.3	0.2	0.2	0.2
Ranchi	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	481	400	401	398	451
	Area	-	-	0.2	0.04	-
Sahebganj	Prod.	-	-	0.1	0.02	-
	Yield	-	-	361	364	-
	Area	-	0.5	0.5	0.1	0.05
Saraikela Kharsawan	Prod.	-	0.2	0.2	0.04	0.02
	Yield	-	500	500	396	396
	Area	0.6	2.1	0.6	0.6	0.2
Simdega	Prod.	0.4	1	0.4	0.0	0.1
	Yield	700	700	700	0.0	624
	Area	0.1	0.2	1	2	0.1
West Singhbhum	Prod.	0.04	0.1	0.6	0.8	0.04
	Yield	422	516	490	416	407
	Area	-	-	-	-	-
Karnataka						-
Bagalkot	Area	0.5	0.2	0.3	0.2	0.5
	Prod.	0.1	0.1	0.3	0.2	0.3
	Yield	207.0	442	1011.0	665	602.9
Bengaluru Rural	Area	0.01	0.01	0.002	0.001	0.003
	Prod.	0.007	0.006	0.002	0.001	0.003
	Yield	500.0	667	1000.0	1000.0	1000.0
Belgaum	Area	0.1	0.3	0.1	0.0	0.0
	Prod.	0.04	0.2	0.1	0.0	0.0
	Yield	345	757	619	1391	846
Bellary	Area	3	0.7	0.1	0.1	0.1
	Prod.	0.8	0.3	0.2	0.1	0.1
	Yield	252	467	1899	1327	894.7
Bengaluru Urban	Area	0.02	0.01	0.01	0.01	0.01
	Prod.	0.01	0.004	0.008	0.004	0.004
	Yield	500.0	571	889	571	800.0
Bidar	Area	6	2	1.1	0.9	1.0
	Prod.	1	2	1.2	0.6	1.0
	Yield	255	698	1150	692	994
Bijapur	Area	0.1	0.2	0.1	0.1	0.3
	Prod.	0.1	0.1	0.1	0.1	0.2
	Yield	486	719	747	639	525.2
Chamarajanagar	Area	0.8	0.2	1	0.7	4
	Prod.	0.2	0.0	0.6	0.4	2
	Yield	212	230.0	507.0	632	432.1
Chikballapur	Area	-	-	0.042	0.003	0.001
	Prod.	-	-	0.037	0.002	0.001

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Chikmagalur	Yield	-	-	881	667	1000.0
	Area	6	4	3.1	2.6	0.1
	Prodn.	5	3	2	2	0.1
Chitradurga	Yield	887	883	685	880.0	906.3
	Area	2	0.1	0.2	0.1	0.0
	Prodn.	1.1	0.0	0.1	0.1	0.1
Dakshin Kannad	Yield	523	443	422	898	1270.8
	Area	-	-	0.3	-	-
	Prodn.	-	-	0.2	-	-
Davangere	Yield	-	-	878	-	-
	Area	0.05	0.1	0.0	0.0	0.0
	Prodn.	0.04	0.0	0.0	0.0	0.0
Dharwad	Yield	889	472	889	1545	1000.0
	Area	0.004	0.1	0.1	0.0	0.0
	Prodn.	0.002	0.0	0.0	0.0	0.0
Gadag	Yield	500	630	880	625	842.1
	Area	0.4	0.2	0.2	0.2	0.2
	Prodn.	0.1	0.2	0.2	0.1	0.2
Gulbarga	Yield	197	739	1071.0	569	1078.8
	Area	4	9.0	6.1	2	13.1
	Prodn.	1.0	8.0	10	3	16
Hassan	Yield	297	890.0	1609.0	1173	1185.6
	Area	2	0.8	1	3	0.3
	Prodn.	1	0.2	0.2	1	0.1
Haveri	Yield	468	251	140.0	471	535
	Area	0.1	0.2	0.0	0.0	0.0
	Prodn.	0.0	0.0	0.0	0.0	0.0
Kolar	Yield	175	116	857	667	857
	Area	0.3	0.1	0.0	0.0	0.0
	Prodn.	0.1	0.0	0.0	0.0	0.0
Koppal	Yield	484	640.0	862	636	857
	Area	8	9	5	9.0	7
	Prodn.	1	5	5.6	3	4
Mandya	Yield	136	490.0	1182	358	604.2
	Area	3	2	7	3.0	2
	Prodn.	1	1.0	4	2	2
Mysore	Yield	532	609.0	562	733	663.0
	Area	10.1	2	7	2	1
	Prodn.	7.5	0.9	5	1.6	0.8
Raichur	Yield	745	558	740.0	930.0	685.9
	Area	0.9	3	0.7	0.6	0.8
	Prodn.	0.0	0.9	0.2	0.2	0.4
Ramanagara	Yield	35	271	337	372	487.3
	Area	3	0.5	2	0.3	0.3
	Prodn.	3	0.4	1	0.3	0.1
Shimoga	Yield	856	831	489	892	331.4
	Area	0.001	0.001	0.005	0.008	-

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
	Prod.	0.0	0.001	0.004	0.005	-
	Yield	0.0	1000.0	800.0	625	-
	Area	0.2	0.3	0.3	0.1	0.05
Tumkur	Prod.	0.1	0.1	0.3	0.0	0.05
	Yield	445	321	878	778	1000.0
	Area	-	0.01	0.03	0.02	0.04
Udupi	Prod.	-	0.01	0.03	0.01	0.03
	Yield	-	625	875	632	857
	Area	-	-	0.001	0.002	0.002
Uttar Kannad	Prod.	-	-	0.001	0.001	0.002
	Yield	-	-	1000	500	1000
	Area	0.06	0.28	0.02	0.04	0.09
Yadgir	Prod.	0.00	0.06	0.04	0.03	0.07
	Yield	73	213	2688	628	850.6
	Kerala					
Alappuzha	Area	0.02	0.10	0.11	0.2	
	Prod.	0.01	0.04	0.04	0.1	
	Yield	333	414	339	310.0	
Ernakulam	Area	-	-	-	0.0	
	Prod.	-	-	-	0.0	
	Yield	-	-	-	250.0	
Kollam	Area	0.02	0.03	0.03	0.1	
	Prod.	0.01	0.01	0.03	0.1	
	Yield	348	382	1032.0	838	
Malappuram	Area	0.11	0.02	0.06	0.1	
	Prod.	0.03	0.003	0.01	0.0	
	Yield	248	200	200	219	
Palakkad	Area	0.02	0.03	0.02	0.0	
	Prod.	0.003	0.002	0.01	0.0	
	Yield	125	80.0	300	267	
Thrissur	Area	-	-	-	0.01	
	Prod.	-	-	-	0.01	
	Yield	-	-	-	1556	
Madhya Pradesh						
Agar Malwa	Area	1	1	0.8	0.11	0.05
	Prod.	1	0.5	0.5	0.03	0.01
	Yield	1000	500	600	300	217
Alirajpur	Area	1	-	0.7	0.1	0.0
	Prod.	0.0	-	0.2	0.02	0.02
	Yield	0.0	-	343	415	621
Anuppur	Area	2	2	2	0.6	0.6
	Prod.	0.0	1	0.5	0.1	0.2
	Yield	0.0	500	288	257	235
Ashoknagar	Area	1	-	0.9	0.1	0.1
	Prod.	0.0	-	0.5	0.1	0.0
	Yield	0.0	-	578	931	763

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Balaghat	Area	2	2	2	0.1	0.0
	Prod.	1	2	2	0.1	0.0
	Yield	500	1000	875	1065	951
Barwani	Area	-	-	0.3	0.0	0.0
	Prod.	-	-	0.1	0.0	0.0
	Yield	-	-	267	400.0	526
Betul	Area	1	1	1	0.1	0.1
	Prod.	0.0	0.4	0.4	0.0	0.0
	Yield	0.0	426	430.0	293	444
Bhind	Area	28	25	36	5.1	17
	Prod.	14	13	20.7	0.9	13.3
	Yield	500	520	582	181	801.0
Bhopal	Area	-	-	0.3	0.0	0.0
	Prod.	-	-	0.1	0.0	0.0
	Yield	-	-	333	447	576
Burhanpur	Area	-	-	-	0.04	0.02
	Prod.	-	-	-	0.03	0.02
	Yield	-	-	-	795	900.0
Chhatarpur	Area	-	80	98	90	111
	Prod.	-	30	43	53	15
	Yield	-	375	444	592	137
Chhindwara	Area	2	3	3	0.2	0.4
	Prod.	1	0.2	2	0.1	0.3
	Yield	500.0	51	700.0	439	882
Damoh	Area	2	3	3	0.3	0.8
	Prod.	1	2	1	0.1	0.2
	Yield	500	667	592	532	280
Datia	Area	36	41	54	22.9	24
	Prod.	15	5	15	15.5	22
	Yield	417	122	274	677	905
Dewas	Area	-	-	-	0.1	0.01
	Prod.	-	-	-	0.1	0.01
	Yield	-	-	-	1055	1000
Dhar	Area	-	-	-	0.1	0.0
	Prod.	-	-	-	0.0	0.0
	Yield	-	-	-	679	833
Dindori	Area	1	-	-	0.1	0.1
	Prod.	0.0	-	-	0.0	0.0
	Yield	0.0	-	-	532	472
Guna	Area	1	-	2	0.1	0.1
	Prod.	0.0	-	1.1	0.2	0.1
	Yield	0.0	-	553	1116	977
Gwalior	Area	20.0	20.0	27	34	19
	Prod.	9	15	15	20.8	12
	Yield	450	750	554	602	660
Harda	Area	-	-	-	0.02	0.01
	Prod.	-	-	-	0.01	0.01

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Hoshangabad	Yield	-	-	-	636	500.0
	Area	-	1	0.2	0.5	1
	Prodn.	-	0.9	0.1	0.4	0.9
Indore	Yield	-	850.0	625	790.0	648
	Area	-	-	-	0.005	-
	Prodn.	-	-	-	0.001	-
Jabalpur	Yield	-	-	-	200.0	-
	Area	1	-	1	0.2	0.2
	Prodn.	0.0	-	0.4	0.1	0.1
Jhabua	Yield	0.0	-	390.0	598	608.0
	Area	-	-	0.4	0.04	0.02
	Prodn.	-	-	0.3	0.03	0.01
Katni	Yield	-	-	800.0	667	647
	Area	8	9	8	5.1	7
	Prodn.	4	7	4	3	4
Khandwa	Yield	500.0	778	545	687	566
	Area	3	-	1	0.2	0.1
	Prodn.	1	-	0.6	0.1	0.0
Khargone	Yield	333	-	454	608.0	482
	Area	1	-	-	0.07	0.02
	Prodn.	0.0	-	-	0.03	0.01
Mandla	Yield	0.0	-	-	471	454
	Area	1	1	1	0.4	0.5
	Prodn.	1	0.5	0.6	0.3	0.3
Mandsaur	Yield	1000.0	490.0	492	655	560.0
	Area	1	-	-	0.1	0.1
	Prodn.	0.0	-	-	0.1	0.0
Morena	Yield	0.0	-	-	578	517
	Area	16	24	16	9	9
	Prodn.	9	17	8	5	4.5
Narsinghpur	Yield	563	708.0	474	484	472
	Area	1	2	0.4	0.2	0.3
	Prodn.	0.0	1	0.3	0.2	0.2
Neemuch	Yield	0.0	500.0	850.0	725	698
	Area	1	-	1	0.1	0.0
	Prodn.	0.0	-	0.6	0.0	0.0
Panna	Yield	0.0	-	600.0	446	193
	Area	29	35	35	14	24.5
	Prodn.	11	16	20	8	14.4
Raisen	Yield	379	457	566	604.0	586
	Area	-	-	-	0.7	0.9
	Prodn.	-	-	-	0.3	0.4
Rajgarh	Yield	-	-	-	430.0	404.0
	Area	4	-	5	0.4	0.4
	Prodn.	2	-	3.1	0.3	0.2
Ratlam	Yield	500.0	-	600.0	614	510.0
	Area	-	-	0.3	0.1	0.0

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	Prod.	-	-	0.2	0.1	0.0
	Yield	-	-	633	867	464
	Area	5	8	6	2	7
Rewa	Prod.	1	2	2	0.8	2
	Yield	200.0	250.0	299	364	330.0
	Area	2	2	1.1	0.5	0.6
Sagar	Prod.	1	1	0.3	0.2	0.2
	Yield	500	500	302	419	396
	Area	10.0	13	17	8	15
Satna	Prod.	2	6	8	2.0	1.6
	Yield	200.0	462	453	268	108.0
	Area	-	-	0.1	0.1	0.1
Shore	Prod.	-	-	0.0	0.1	0.1
	Yield	-	-	500.0	621	600.0
	Area	3	-	-	1.1	0.8
Seoni	Prod.	1	-	-	0.4	0.3
	Yield	333	-	-	422	404.0
	Area	10.0	9	10.9	4	5.1
Shahdol	Prod.	4	3	4	2	2
	Yield	400	333	322	405	449
	Area	-	-	0.2	0.06	0.01
Shajapur	Prod.	-	-	0.2	0.04	0.01
	Yield	-	-	800	603	636
	Area	11	18	13	19	26.1
Sheopur	Prod.	4	13	5	10	12
	Yield	364	722	377	493	444
	Area	12	8	13	6	7
Shivpuri	Prod.	4	3	7	4	3.5
	Yield	333	375	556	610.0	524
	Area	10	9	13	3	8
Sidhi	Prod.	4	3	4.0	1	3.9
	Yield	400.0	333	322	434	495
	Area	14	15	18	5	14
Singrauli	Prod.	8	6	7	3	8
	Yield	571	400	386	657	569
	Area	34	46	30.0	9	10.3
Tikamgarh	Prod.	13	16	9	4	1
	Yield	382	348	300	479	124
	Area	-	-	0.2	0.05	0.01
Ujjain	Prod.	-	-	0.1	0.03	0.01
	Yield	-	-	526	633	727
	Area	5	4	5	5	4
Umaria	Prod.	2	2	2	2	3
	Yield	400	500	361	390	584
	Area	-	-	0.04	0.10	0.06
Vidisha	Prod.	-	-	0.02	0.04	0.02
	Yield	-	-	500.0	356	411

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Maharashtra						
Ahmednagar	Area	0.1	0.2	0.2	0.2	0.6
	Prod.	0.0	0.0	0.1	0.0	0.1
	Yield	0.0	210	324	82	190
Akola	Area	1.0	1.1	1.1	1	1
	Prod.	0.1	0.3	0.2	0.3	0.0
	Yield	108	239	166	215	33
Amravati	Area	0.04	0.1	0.1	0.02	0.1
	Prod.	0.01	0.0	0.0	0.01	0.0
	Yield	250	263	183	250	176
Aurangabad	Area	0.5	0.5	0.2	0.2	0.3
	Prod.	0.1	0.1	0.0	0.0	0.1
	Yield	94	183	150.0	64	321.7
Beed	Area	3	6	7	2.8	3
	Prod.	0.3	1.0	1.0	0.2	0.3
	Yield	76	184	152	62	101.5
Bhandara	Area	0.6	0.7	-	0.5	0.5
	Prod.	0.2	0.1	-	0.1	0.1
	Yield	271	194	-	258	297
Buldhana	Area	2	2	2	2	2
	Prod.	0.4	0.6	0.4	0.6	0.2
	Yield	205	297	213	288	91
Chandrapur	Area	0.5	0.5	0.4	0.4	0.4
	Prod.	0.1	0.1	0.1	0.1	0.2
	Yield	200.0	274	190.0	262	448.5
Dhule	Area	3	1	0.4	16.0	0.3
	Prod.	0.8	0.3	0.1	3	0.0
	Yield	277	214	254	160.0	116.4
Gadchiroli	Area	0.4	0.6	0.3	0.3	0.4
	Prod.	0.1	0.2	0.1	0.1	0.1
	Yield	250	348	231	257	144.7
Gondia	Area	1	1	1	1	1
	Prod.	0.2	0.4	0.2	0.3	0.2
	Yield	167	273	191	254	122
Hingoli	Area	4	3	0.7	0.1	0.0
	Prod.	0.2	0.4	0.1	0.0	0.0
	Yield	62	171	142	117	188
Jalgaon	Area	3	3	4	4	4
	Prod.	0.6	29	1	1	1
	Yield	194	8422	343	298	331
Jalna	Area	0.1	0.1	0.3	-	0.2
	Prod.	0.01	0.02	0.05	-	0.0
	Yield	100	184	149	-	83.9
Kolhapur	Area	-	0.026	0.012	-	0.015
	Prod.	-	0.007	0.004	-	0.002
	Yield	-	269	333	-	133
Latur	Area	3	3.1	3	3	2

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	Prod.	0.3	0.7	0.3	0.3	0.5
	Yield	107.0	211	117	101.0	207.2
	Area	0.1	0.1	-	-	0.0
Nagpur	Prod.	0.02	0.02	-	-	0.0
	Yield	200.0	278	-	-	200.0
	Area	2	3	3.2	1	2
Nanded	Prod.	0.2	0.4	1.0	0.2	0.4
	Yield	133	166	320.0	186	191.3
	Area	0.2	0.2	0.1	0.0	0.0
Nandurbar	Prod.	0.0	28	0.0	0.0	0.0
	Yield	200	128098	313	214	368
	Area	0.0	0.016	0.033	0.007	0.021
Nasikh	Prod.	0.0	0.006	0.010	0.001	0.003
	Yield	0.0	375	303.0	143	143
	Area	3	3	4	3	2
Osmanabad	Prod.	0.2	0.6	0.5	0.1	0.5
	Yield	77	168	135	42	224
	Area	0.5	0.6	0.6	0.1	0.5
Palghar	Prod.	0.2	0.1	0.3	0.0	0.2
	Yield	440	229	545	84	383
	Area	1.0	1.0	0.9	0.3	0.4
Parbhani	Prod.	0.1	0.2	0.1	0.0	0.1
	Yield	126	180.0	143	90.0	227
	Area	0.7	0.7	0.9	0.7	0.6
Pune	Prod.	0.1	0.2	0.3	0.1	0.1
	Yield	96	259	314	124	209.9
	Area	0.1	0.2	-	-	-
Raigad	Prod.	0.0	0.1	-	-	-
	Yield	311	359	-	-	-
	Area	0.1	0.04	0.04	0.05	0.1
Ratnagiri	Prod.	0.0	0.02	0.01	0.02	0.0
	Yield	108.0	366	300	429	377.4
	Area	-	0.02	0.02	0.004	
Sangli	Prod.	-	0.01	0.02	0.0	
	Yield	-	250.0	909.0	0.0	
	Area	0.10	0.01	0.01	0.02	0.02
Satara	Prod.	0.01	0.00	0.00	0.00	0.01
	Yield	50.0	250.0	300.0	133	208.3
	Area	0.0	0.0	-	-	0.0
Sindhudurg	Prod.	0.0	0.0	-	-	0.0
	Yield	244	318	-	-	389
	Area	0.1	0.2	0.4	0.5	0.5
Solapur	Prod.	0.0	0.1	0.1	0.1	0.1
	Yield	382	273	351	124	302.2
	Area	0.1	0.1	-	-	-
Thena	Prod.	0.1	0.0	-	-	-
	Yield	875	300	-	-	-

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Wardha	Area	-	0.02	0.02	0.01	0.08
	Prodn.	-	0.003	0.003	0.002	0.02
	Yield	-	200.0	188	200.0	197.5
Washim	Area	0.4	0.2	-	0.2	0.4
	Prodn.	0.1	0.0	-	0.1	0.2
	Yield	239	187	-	257	345
Yavatmal	Area	-	0.8	0.6	1	2.1
	Prodn.	-	0.2	0.1	0.2	0.3
	Yield	-	248	200	163	142
Meghalaya						
East Garo Hills	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.2	0.2	0.2	0.2	
	Yield	903.0	893	897	901.0	
East Jaintia Hills	Area	0.01	0.01	0.01	0.01	
	Prodn.	0.01	0.01	0.01	0.01	
	Yield	900.0	818	818	818	
East Khasi Hills	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	1486	1474	1474	1475	
North Garo Hills	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	1026.0	1026.0	1025.0	1025.0	
South Garo Hills	Area	0.2	0.2	0.2	0.2	
	Prodn.	0.2	0.2	0.2	0.2	
	Yield	885	894	895	900.0	
South West Garo Hills	Area	0.4	0.5	0.6	0.6	
	Prodn.	0.5	0.5	0.5	0.5	
	Yield	1029.0	845	848	850.0	
South West Khasi Hills	Area	-	-	-	0.0	
	Prodn.	-	-	-	0.0	
	Yield	-	-	-	1429	
West Garo Hills	Area	1.1	1.1	1.1	1	
	Prodn.	1.0	1.0	1.0	1.0	
	Yield	928	930.0	932	933	
West Jaintia Hills	Area	0.03	0.03	0.03	0.03	
	Prodn.	0.03	0.03	0.03	0.03	
	Yield	862	862	867	867	
West Khasi Hills	Area	0.04	0.04	0.04	0.04	
	Prodn.	0.04	0.04	0.04	0.04	
	Yield	1222	1222	1222	1222	
Mizoram						
Aizawl	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	1043	809	926	886	
Champhai	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.0	0.0	
	Yield	809	779	500	740	

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Kolasib	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.0	0.1	
	Yield	809	779	500	908	
Lawngtlai	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.2	
	Yield	444	442	442	853	
Lunglei	Area	0.2	0.2	0.1	0.1	
	Prod.	0.2	0.1	0.0	0.1	
	Yield	878	656	703.0	864	
Mamit	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	535	581	570.0	535	
Saiha	Area	-	-	-	0.01	
	Prod.	-	-	-	0.01	
	Yield	-	-	-	857	
Serchhip	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	737	743	646	642	
Nagaland						
Dimapur	Area	0.4	0.4	0.4	0.7	0.7
	Prod.	0.2	0.2	0.2	0.4	0.4
	Yield	649	615	615	621	618
Kiphire	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	600	600	600	632	625
Kohima	Area	0.4	0.4	0.4	0.4	0.4
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	649	615	615	615	617
Longleng	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	600	600	600	625	623
Mokokchung	Area	0.5	0.5	0.5	0.5	0.5
	Prod.	0.3	0.3	0.3	0.3	0.3
	Yield	578	600	609	609	611
Mon	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	625	625	588	611	610
Peren	Area	0.4	0.4	0.4	0.4	0.4
	Prod.	0.3	0.3	0.3	0.3	0.3
	Yield	568	614	614	614	616
Phek	Area	0.3	0.3	0.3	0.3	0.3
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	633	613	613	594	604
Tuensang	Area	0.3	0.3	0.3	0.3	0.3
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	606	618	618	618	619
Wokha	Area	0.4	0.4	0.4	0.4	0.4

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Zunheboto	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	548	561	585	585	592
	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	600	600	600	600	605
Odisha						
Anugul	Area	1.0	0.8	1.0	0.8	36
	Area	0.2	0.2	0.3	0.4	14
	Prod.	227	293	336	481	397
Balangir	Yield	2	2	0.5	0.3	1
	Area	0.4	0.7	0.1	0.1	0.5
	Prod.	207.0	320.0	225	236	418.0
Baleshwar	Yield	0.8	0.3	0.06	0.02	-
	Area	0.4	0.1	0.02	0.01	-
	Prod.	427	398	300	316	-
Bargarh	Yield	0.6	0.3	0.3	0.3	1.0
	Area	0.1	0.1	0.1	0.1	0.4
	Prod.	172	249	249	223	389
Bhadrak	Yield	0.04	0.01	0.01	0.02	0.19
	Area	0.01	0.00	0.01	0.01	0.07
	Prod.	289	143	357	265	368
Boudh	Yield	0.1	0.1	0.1	0.0	2.0
	Area	0.02	0.0	0.0	0.0	0.8
	Prod.	140	144	244	155	413
Cuttack	Yield	-	0.02	-	0.7	0.5
	Area	-	0.01	-	0.3	0.2
	Prod.	-	389	-	400	415
Deogarh	Yield	0.1	0.5	0.6	0.6	12
	Area	0.03	0.1	0.2	0.2	5
	Prod.	225	298	371	252	403
Dhenkanal	Yield	0.2	0.2	0.1	0.1	13
	Area	0.04	0.1	0.02	0.02	5
	Prod.	181	307	320	310	386
Gajapati	Yield	0.9	0.7	0.9	0.4	2
	Area	0.2	0.2	0.2	0.1	0.7
	Prod.	218	256	259	223	408.3
Ganjam	Yield	1.9	0.3	0.9	1	20.9
	Area	0.3	0.1	0.2	0.3	8
	Prod.	158	213	186	180	396
Jagatsinghapur	Yield	0.007	-	-	0.1	0.1
	Area	0.002	-	-	0.0	0.0
	Prod.	286	-	-	375	375
Jharsuguda	Yield	0.3	0.4	0.5	0.1	2
	Area	0.1	0.1	0.2	0.0	0.8
	Prod.	191	401	351	143	435
Kalahandi	Yield	0.1	0.2	0.1	0.1	1
	Area	0.01	0.02	0.02	0.02	0.59

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Kandhamal	Prod.	100.0	113	154	178	418.4
	Yield	0.01	0.1	-	0.8	1.0
	Area	0.002	0.0	-	0.3	0.4
Kendrapara	Prod.	167	183	-	413	427.1
	Yield	0.01	0.003	-	0.005	0.21
	Area	0.01	0.001	-	0.002	0.09
Kendujhar	Prod.	455	333	-	300.0	429
	Yield	0.12	0.12	0.08	0.04	-
	Area	0.03	0.04	0.02	0.01	-
Khordha	Prod.	263	287	277	273	-
	Yield	0.11	0.02	0.01	0.17	0.10
	Area	0.03	0.01	0.00	0.07	0.04
Koraput	Prod.	227	600.0	429	412	400.0
	Yield	0.1	0.4	0.2	0.2	0.4
	Area	0.03	0.2	0.1	0.04	0.2
Malkangiri	Prod.	296	489	322	196	415
	Yield	7	4	5	7	17
	Area	1	1	1.1	1	7
Mayurbhanj	Prod.	179	265	235	207.0	400.2
	Yield	0.4	0.06	0.05	0.07	3
	Area	0.2	0.03	0.02	0.03	1
Nayagarh	Prod.	490	525	438	403	415
	Yield	0.1	0.1	0.2	0.1	6
	Area	0.02	0.03	0.02	0.02	3
Nuapada	Prod.	141	194	117	205	432
	Yield	0.5	0.7	0.8	0.6	2.0
	Area	0.0	0.1	0.1	0.1	0.9
Puri	Prod.	103	192	115	88	431.4
	Yield	0.2	0.04	0.01	0.04	0.3
	Area	0.1	0.02	0.001	0.01	0.1
Rayagada	Prod.	273	421	200	185	406.3
	Yield	2	2	2	2	7
	Area	0.3	0.8	0.7	0.6	3
Sambalpur	Prod.	187	320	308	328	415
	Yield	0.7	0.4	0.1	0.4	11
	Area	0.2	0.1	0.03	0.1	5
Sonepur	Prod.	252	402.0	426	349	407.5
	Yield	0.055	0.015	0.006	0.007	2
	Area	0.014	0.002	0.002	0.001	0.7
Sundargarh	Prod.	255	133	333	157	410.4
	Yield	1	1	1.6	0.4	14
	Area	0.3	0.6	0.7	0.1	6
Puducherry	Prod.	229	422	456	179	404.4
	Yield	-	111	200	143	-
	Area	-	0.009	0.010	0.007	-
Karaikal	Prod.	-	0.001	0.002	0.001	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-

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Pondicherry	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	824	1104.0	1207.0	900.0	
Punjab						
Amritsar	Area	1	0.6	0.7	0.6	
	Prodn.	0.4	0.2	0.3	0.1	
	Yield	264	333	429	167	
Fazilka	Area	0.1	0.1	-	-	
	Prodn.	0.03	0.0	-	-	
	Yield	300.0	0.0	-	-	
Firozepur	Area	0.4	0.6	0.4	0.5	
	Prodn.	0.1	0.4	0.2	0.1	
	Yield	350.0	667	500.0	200.0	
Gurdaspur	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.0	0.0	0.0	0.0	
	Yield	400.0	0.0	0.0	0.0	
Hoshiarpur	Area	0.3	0.4	0.2	0.3	
	Prodn.	0.1	0.1	0.0	0.1	
	Yield	333	175	0.0	333	
Jalandhar	Area	0.1	0.1	0.2	0.1	
	Prodn.	0.1	0.1	0.0	0.1	
	Yield	500	1000	0	1000	
Mansa	Area	0.1	-	-	-	
	Prodn.	0.0	-	-	-	
	Yield	300	-	-	-	
Muktsar	Area	0.1	0.1	0.1	-	
	Prodn.	0.1	0.0	0.1	-	
	Yield	500	0	1000	-	
Pathankot	Area	0.4	0.4	0.4	0.5	
	Prodn.	0	0	0	0	
	Yield	400	250	500	200	
Rupnagar	Area	0.1	0.2	0.2	0.2	
	Prodn.	0.0	0.1	0.0	0.1	
	Yield	300	500	0	500	
Tarn Tarn	Area	2	0.6	0.5	0.6	
	Prodn.	0.6	0.2	0.1	0.2	
	Yield	387	333	200.0	333	
Rajasthan						
Ajmer	Area	9	7.1	7	6	4.1
	Prodn.	2.2	4	2	2.4	0.4
	Yield	255	505.0	369	382	406.2
Alwar	Area	4	2	2	2	0.5
	Prodn.	1	0.8	0.5	0.6	0.3
	Yield	319	348	269	348	327.5
Banswara	Area	0.4	0.3	0.3	0.3	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.3
	Yield	314	346	268	348	325

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Baran	Area	4	2	0.7	0.6	0.3
	Prod.	1	0.5	0.4	0.2	0.3
	Yield	286	248	497	407.0	328.0
Barmer	Area	8	6	5	4	1.0
	Prod.	0.3	0.6	0.5	0.6	0.3
	Yield	39	103.0	101.0	141	255.9
Bharatpur	Area	6	2	2	2	0.8
	Prod.	3	1.0	0.5	0.2	0.5
	Yield	486	396	290.0	106.0	472.9
Bhilwara	Area	13	11	10.1	9.0	1
	Prod.	2	3.1	2	3	0.1
	Yield	124	276	239	308.0	119
Bikaner	Area	7	9.4	12	15	2
	Prod.	0.8	3	4	2	0.1
	Yield	114	291	359	167	146.1
Bundi	Area	3	1.6	1.0	1.0	0.1
	Prod.	0.6	0.5	0.3	0.2	0.0
	Yield	187	334	290	213	40.7
Chittorgarh	Area	3	2	2.0	1	0.4
	Prod.	0.4	0.2	0.8	0.5	0.3
	Yield	161	102	385	348	327
Churu	Area	4	7.0	8	6.1	1
	Prod.	0.5	2	1	0.7	0.3
	Yield	107	222	160	108	272.1
Dausa	Area	12	8	7	7	3
	Prod.	3	3	3	3.1	0.4
	Yield	290	339	383	423	413
Dholpur	Area	3	2.0	2.1	2.6	2
	Prod.	2	1	1	1	0.4
	Yield	614	703	594	520	439
Dungarpur	Area	1	1	1.1	0.8	0.2
	Prod.	0.2	0.4	0.3	0.3	0.3
	Yield	147	347	269	348	327.3
Ganganagar	Area	2.1	0.9	0.9	3	1
	Prod.	0.7	0.4	0.3	0.9	0.4
	Yield	314	440	373	360	358
Hanumangarh	Area	2	1	1.1	2	1
	Prod.	0.5	0.4	0.3	0.7	0.3
	Yield	314	348	270.0	348	327.4
Jaipur	Area	7.1	5	4	5	2.0
	Prod.	1.1	2	1	2	0.4
	Yield	152	329	338	412	435
Jaisalmer	Area	5	6	6.0	7.3	2
	Prod.	1	2	0.9	2	0.2
	Yield	314	354	148	231	200
Jalore	Area	25.1	14	11	10	4.8
	Prod.	4	4	2	1	0.4

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Jhalawar	Yield	146	267	204.0	127	422.9
	Area	1.0	0.5	0.6	0.5	0.1
	Prodn.	0.3	0.2	0.2	0.2	0.3
Jhunjhunu	Yield	314	348	269	347	328
	Area	0.3	0.4	0.3	0.3	0.3
	Prodn.	0.1	0.1	0.1	0.1	0.3
Jodhpur	Yield	314	347	269	348	327.6
	Area	40	29	21.0	23	7
	Prodn.	17	10.1	9.1	9	0.4
Karauli	Yield	434	354	433	388	439
	Area	21.8	14	15	17.6	9
	Prodn.	10	8	7	8	0.4
Kota	Yield	452	552	479	439	398
	Area	8	2	0.9	0.6	0.2
	Prodn.	2	0.9	0.3	0.3	0.2
Nagaur	Yield	231	362	308.0	507.0	166.8
	Area	11	7	7.0	6	2
	Prodn.	3	3	2	2	0.2
Pali	Yield	259	388	236	338	210.6
	Area	92	66	64	50.4	17
	Prodn.	26	22	12	21	0.3
Pratapgarh	Yield	279	328	195	421	290.3
	Area	0.5	0.4	0.4	0.4	0.1
	Prodn.	0.1	0.2	0.1	0.1	0.3
Rajsamand	Yield	314	347	268	348	327
	Area	1	1	1.0	0.9	0.3
	Prodn.	0.4	0.4	0.3	0.3	0.3
Sawai Madhopur	Yield	315	347	269	348	327.0
	Area	40	28	26	29	13
	Prodn.	21	13	10	11	0.4
Sikar	Yield	519	465	387	400.0	378.9
	Area	0.4	0.4	0.4	0.4	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.3
Sirohi	Yield	316	347	270	349	327
	Area	20	15	24	18	8
	Prodn.	7	3	0.0	4	0.4
Tonk	Yield	366	235	2	233	434
	Area	10.6	11	7	10.2	7
	Prodn.	4	3.9	3	5	0.3
Udaipur	Yield	359	348	437	502.0	282
	Area	2	2	2	1	0.4
	Prodn.	0.2	0.6	0.4	0.5	0.3
Tamil Nadu	Yield	94	347	270	348	327
	Area	0.6	1.4	0.7	1	2
	Prodn.	0.3	0.5	0.4	0.5	1
Ariyalur	Yield	557	389	566	402.0	649

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Chennai	Area	-	-	-	0.0	-
	Prod.	-	-	-	0.0	-
	Yield	-	-	-	0.0	-
Coimbatore	Area	0.4	0.3	0.2	0.2	0.2
	Prod.	0.3	0.1	0.1	0.1	0.1
	Yield	667	394	444	507.0	561
Cuddalore	Area	3.6	4	3	3	5
	Prod.	2	1.8	1.7	1.8	3
	Yield	619	455	536	686	727
Dharmapuri	Area	2	0.1	0.3	0.4	0.3
	Prod.	1	0.0	0.2	0.2	0.1
	Yield	680.0	390.0	436	477	336
Dindigul	Area	0.7	0.2	0.5	0.2	0.2
	Prod.	0.5	0.1	0.2	0.1	0.2
	Yield	649	392	483	558	669
Erode	Area	6	0.3	5	5	5.8
	Prod.	4.1	0.1	4.2	3	4
	Yield	725	267	787	552	754
Kanchipuram	Area	1.0	0.9	0.8	2	2
	Prod.	0.6	0.4	0.4	1	1.1
	Yield	622	465	567	681	672
Karur	Area	4	2	5	3.1	4
	Prod.	2	0.2	2	2	2
	Yield	561	112	455	536	622
Krishnagiri	Area	0.9	0.5	0.5	1.0	0.5
	Prod.	0.5	0.2	0.2	0.5	0.1
	Yield	520.0	428	335	490.0	300.0
Madurai	Area	0.7	0.4	0.2	0.1	0.2
	Prod.	0.4	0.1	0.1	0.1	0.2
	Yield	626	381	590.0	513	703.0
Nagapattanam	Area	0.4	0.4	0.3	0.7	1
	Prod.	0.1	0.0	0.2	0.1	1.0
	Yield	203.0	40.0	613	147	726
Namakkal	Area	1	0.3	1	0.5	0.9
	Prod.	0.7	0.1	1	0.3	0.7
	Yield	628	391	1173	554	776
Perambalur	Area	0.5	0.1	0.4	0.2	0.5
	Prod.	0.3	0.0	0.2	0.1	0.3
	Yield	624	381	568	556	701.0
Pudukkottai	Area	1.1	1	1	1	2
	Prod.	0.3	0.4	0.7	0.6	0.6
	Yield	282	381	599	466	399
Ramanathapuram	Area	0.8	0.8	1	1	0.5
	Prod.	0.2	0.1	0.2	0.2	0.2
	Yield	210	76	170	143	384
Salem	Area	3	0.3	2	1	2
	Prod.	3	0.2	1.1	0.6	2

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Sivaganga	Yield	827	565	546	516	943
	Area	0.1	0.2	0.1	0.2	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
Thanjavur	Yield	647	380.0	503.0	539	663
	Area	4	5	4	4	5.1
	Prodn.	2.0	2	1	2	3
Theni	Yield	469	314	312	501	534
	Area	2	1	1	0.8	0.8
	Prodn.	2	0.4	0.3	0.4	0.3
Thiruvallur	Yield	948	354	278	477	411
	Area	0.8	0.6	0.9	2	2
	Prodn.	0.5	0.2	0.5	1	2
Thiruvarur	Yield	619	381	595	564	711
	Area	0.2	0.6	0.6	0.4	0.9
	Prodn.	0.1	0.2	0.3	0.2	0.3
Thoothukudi	Yield	419	377	606.0	565	362
	Area	-	-	-	0.4	0.4
	Prodn.	-	-	-	0.2	0.3
Tiruchirapalli	Yield	-	-	-	558	723
	Area	1	1.0	1.4	1.1	2
	Prodn.	0.9	0.7	1.0	0.6	1.0
Tirunelveli	Yield	804.0	724	730.0	539	611
	Area	0.9	0.2	0.4	2	0.4
	Prodn.	0.5	0.1	0.2	0.8	0.2
Tiruppur	Yield	484	389	568	498	592
	Area	1.1	0.0	1.0	0.5	0.5
	Prodn.	0.6	0.0	0.6	0.3	0.4
Tiruvannamalai	Yield	550	353	623	563	725
	Area	1.0	1	2	1.8	3
	Prodn.	0.7	0.4	1	0.9	2
Tuticorin	Yield	694	308	592	496	841
	Area	0.7	0.4	0.4	-	-
	Prodn.	0.3	0.0	0.1	-	-
Vellore	Yield	476	18	189	-	-
	Area	0.2	0.4	0.2	0.6	0.8
	Prodn.	0.1	0.1	0.1	0.3	0.6
Villupuram	Yield	641	383	596	563	707.0
	Area	7	4.0	6	9	10.4
	Prodn.	5.0	2	3	6.0	9
Virudhunagar	Yield	768	606.0	552	684	846
	Area	0.5	0.7	0.9	1	1
	Prodn.	0.1	0.1	0.5	0.4	0.0
Adilabad	Yield	252	139	596	358	25
	Area	4	0.3	0.3	0.3	0.3
	Prodn.	1.0	0.2	0.1	0.2	0.2
Telangana						
Adilabad	Yield	241	553	470.0	637	633
	Area	4	0.3	0.3	0.3	0.3
	Prodn.	1.0	0.2	0.1	0.2	0.2

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Bhadradi Kothagudem	Area	-	0.5	0.1	0.1	0.1
	Prod.	-	0.2	0.0	0.0	0.1
	Yield	-	394	438	544	479
Jagitial	Area	-	8	7	6	7
	Prod.	-	7	4	3	5
	Yield	-	979	517	430.0	710
Jangoan	Area	-	1	0.2	0.1	0.007
	Prod.	-	0.2	0.0	0.0	0.004
	Yield	-	129	196	250.0	571
Jayashankar Bhupalpally	Area	-	0.1	0.1	-	0.0
	Prod.	-	0.0	0.0	-	0.0
	Yield	-	319	564	-	654
Jogulamba	Area	-	-	-	-	0.0
	Prod.	-	-	-	-	0.0
	Yield	-	-	-	-	583
Kamareddy	Area	-	0.04	0.03	0.02	0.2
	Prod.	-	0.03	0.02	0.02	0.1
	Yield	-	795	586	696	627
Karimnagar	Area	3	0.01	0.01	-	0.005
	Prod.	1.0	0.01	0.01	-	0.003
	Yield	301.0	625	556	-	600
Khammam	Area	0.5	0.2	0.2	0.1	0.1
	Prod.	0.1	0.2	0.1	0.1	0.1
	Yield	280.0	691	567	698	619
Komaram Bheem Asifabad	Area	-	0.10	0.13	0.06	0.03
	Prod.	-	0.03	0.03	0.01	0.01
	Yield	-	288	244	190.0	440.0
Mahabubabad	Area	-	0.16	0.04	0.04	0.06
	Prod.	-	0.03	0.01	0.01	0.03
	Yield	-	154	295	306.0	438
Mahabubnagar	Area	0.5	0.2	0.4	0.3	0.1
	Prod.	0.0	0.0	0.1	0.0	0.0
	Yield	37	137	311	153	132
Mancherial	Area	-	0.2	0.07	0.03	0.03
	Prod.	-	0.1	0.03	0.02	0.02
	Yield	-	343	389	633	600.0
Medak	Area	0.3	0.01	0.00	0.01	0.03
	Prod.	0.03	0.01	0.00	0.01	0.02
	Yield	108.0	818	667	643	607.0
Medchal	Area	-	-	-	0.03	0.00
	Prod.	-	-	-	0.02	0.00
	Yield	-	-	-	692	0.0
Mulugu	Area	-	-	-	0.02	0.0
	Prod.	-	-	-	0.01	0.0
	Yield	-	-	-	684	636
Nagarkurnool	Area	-	0.03	0.01	0.04	0.1
	Prod.	-	0.03	0.003	0.03	0.0

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Nalgonda	Yield	-	794	600.0	714	377
	Area	0.4	0.1	-	0.01	0.002
	Prodn.	0.0	0.1	-	0.01	0.001
Narayanapet	Yield	84	806	-	667	500
	Area	-	-	-	0.1	0.1
	Prodn.	-	-	-	0.0	0.0
Nirmal	Yield	-	-	-	157	220
	Area	-	6	4	4	6.4
	Prodn.	-	2	1	3	3
Nizambad	Yield	-	394	391	710.0	396
	Area	2	3	4	5.3	6
	Prodn.	0.6	4	3.2	5.4	5
Peddapalli	Yield	281	1100.0	831	1019.0	824
	Area	-	0.2	0.0	0.3	0.0
	Prodn.	-	0.2	0.0	0.2	0.0
Rajanna Sircilla	Yield	-	740.0	576	700.0	630.0
	Area	-	0.2	0.1	0.2	0.1
	Prodn.	-	0.1	0.1	0.1	0.04
Ranga Reddy	Yield	-	801.0	571	702.0	643
	Area	0.2	0.039	0.001	-	0.03
	Prodn.	0.0	0.010	0.000	-	0.01
Sangareddy	Yield	35	256	0.0	-	192
	Area	-	0.1	0.04	0.05	0.1
	Prodn.	-	0.0	0.01	0.01	0.02
Siddipet	Yield	-	194	306	167	253
	Area	-	0.1	0.0	0.0	0.0
	Prodn.	-	0.1	0.0	0.0	0.0
Suryapet	Yield	-	809.0	581	694	621
	Area	-	0.12	0.03	0.01	-
	Prodn.	-	0.01	0.01	0.001	-
Vikarabad	Yield	-	50.0	250.0	143	-
	Area	-	0.03	0.08	0.07	0.06
	Prodn.	-	0.01	0.02	0.02	0.02
Wanaparthy	Yield	-	152	231	278	271
	Area	-	-	-	-	0.01
	Prodn.	-	-	-	-	0.003
Warangal (Rural)	Yield	-	-	-	-	333
	Area	2	0.1	0.02	0.02	0.03
	Prodn.	0.1	0.1	0.01	0.01	0.02
Warangal (Urban)	Yield	31	496	476	474	571
	Area	-	0.01	0.01	-	0.01
	Prodn.	-	0.001	0.006	-	0.007
Yadadri Bhuvanagiri	Yield	-	100.0	500.0	-	636
	Area	-	0.3	0.1	0.01	0.01
	Prodn.	-	0.02	0.01	0.003	0.003
	Yield	-	55	141	250.0	231

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Tripura						
Dhalai	Area	0.8	1	1	1	
	Prod.	0.4	0.6	0.8	0.9	
	Yield	548	563	578	603.0	
Gomati	Area	0.5	0.8	1.0	1.1	
	Prod.	0.3	0.5	0.6	0.6	
	Yield	581	588	540.0	548	
Khowai	Area	0.4	0.6	0.7	0.8	
	Prod.	0.2	0.3	0.3	0.4	
	Yield	547	523	511	567	
North Tripura	Area	0.8	0.9	1	1	
	Prod.	0.4	0.5	0.6	0.6	
	Yield	571	530.0	535	551	
Sepahijala	Area	0.3	0.6	0.7	0.6	
	Prod.	0.2	0.4	0.4	0.4	
	Yield	595	646	644	662	
South Tripura	Area	0.6	0.7	1.0	0.9	
	Prod.	0.4	0.5	0.7	0.6	
	Yield	629	686	715	736	
Unakoti	Area	0.2	0.4	0.5	0.4	
	Prod.	0.1	0.2	0.3	0.2	
	Yield	612	621	626	634	
West Tripura	Area	0.3	0.5	0.7	0.7	
	Prod.	0.2	0.3	0.4	0.5	
	Yield	586	568	606	767	
Uttar Pradesh						
Agra	Area	3	2	2	2	2
	Prod.	1.0	0.3	0.2	0.2	0.2
	Yield	303	130	113	110	118
Aligarh	Area	0.4	0.0	0.0	2.0	0.0
	Prod.	0.1	0.0	0.0	0.5	0.0
	Yield	302	227	281	226	167
Allahabad	Area	0.5	0.5	0.5	0.5	1
	Prod.	0.1	0.1	0.2	0.1	0.2
	Yield	103.0	123	290.0	212	171
Ambedkar Nagar	Area	0.03	0.01	0.01	0.03	0.02
	Prod.	0.006	0.002	0.003	0.007	0.003
	Yield	194	222	300.0	219	158
Amethi	Area	0.5	0.6	0.7	0.6	0.8
	Prod.	0.1	0.1	0.2	0.1	0.2
	Yield	201.0	213	295	226	184
Amroha	Area	-	-	-	0.1	0.0
	Prod.	-	-	-	0.0	0.0
	Yield	-	-	-	224	171
Auraiya	Area	2	0.8	0.8	1.1	1
	Prod.	0.1	0.2	0.2	0.2	0.2
	Yield	60	188	207	194	162

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Azamgarh	Area	0.2	0.1	0.1	0.1	0.0
	Prod.	0.1	0.0	0.0	0.0	0.0
	Yield	302	211	300	225	179
Baghpat	Area	-	-	-	0.1	-
	Prod.	-	-	-	0.0	-
	Yield	-	-	-	226	-
Bahraich	Area	0.4	0.4	0.5	0.4	0.4
	Prod.	0.1	0.1	0.2	0.1	0.1
	Yield	304.0	213	295	226	185
Balrampur	Area	0.02	0.02	0.02	0.02	0.1
	Prod.	0.01	0.00	0.00	0.00	0.0
	Yield	278	235	267	235	177
Banda	Area	49	8	11.1	12	13.7
	Prod.	14	0.7	5	3.0	6
	Yield	276	88	411	264	429
Barabanki	Area	0.1	0.2	0.2	0.2	0.2
	Prod.	0.0	0.0	0.0	0.0	0.0
	Yield	203.0	216	297	226	186
Bareilly	Area	5.4	2	3	3	3.0
	Prod.	0.6	0.2	0.2	0.2	0.2
	Yield	111	124	98	73	72
Basti	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.0	0.0	0.0	0.0
	Yield	305.0	216	293	228	184
Bijnor	Area	0.2	0.01	0.01	0.11	0.03
	Prod.	0.1	0.002	0.004	0.03	0.01
	Yield	303.0	182	308.0	229	192
Budaun	Area	3	4	2	2	2
	Prod.	0.5	0.7	0.3	0.1	0.1
	Yield	194	169	141	69	57
Bulandshahr	Area	0.13	0.01	0.01	0.08	0.01
	Prod.	0.04	0.00	0.00	0.02	0.002
	Yield	299	143	250.0	231	182
Chandauli	Area	0.007	0.02	0.03	0.02	0.02
	Prod.	0.001	0.01	0.01	0.01	0.00
	Yield	143	391	303.0	375	176
Chitrakoot	Area	9.5	0.9	1	1	1
	Prod.	2	0.0	0.2	0.2	0.2
	Yield	209.0	48	154	185	162
Deoria	Area	0.07	0.09	0.11	0.08	0.07
	Prod.	0.02	0.02	0.03	0.02	0.01
	Yield	309.0	213	294	226	191
Etah	Area	1.0	0.3	0.2	0.4	0.4
	Prod.	0.3	0.1	0.1	0.1	0.1
	Yield	303.0	214	297	226	185
Etawah	Area	0.6	1.1	0.9	1.0	1
	Prod.	0.0	0.2	0.2	0.2	0.2

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Faizabad	Yield	60.0	189	207.0	194	162
	Area	0.04	0.03	0.04	0.06	0.04
	Prodn.	0.01	0.01	0.01	0.01	0.01
Farrukhabad	Yield	205.0	219	293	226	194
	Area	3.0	2	2	3	2
	Prodn.	0.2	0.3	0.5	0.4	0.3
Fatehpur	Yield	60	138	220	155	113
	Area	19.1	9	9	11.0	11
	Prodn.	2	1.0	3	2	2.1
Firozabad	Yield	99	113	311	225	180.0
	Area	2	1	2.1	2	2
	Prodn.	0.7	0.2	0.2	0.2	0.2
Gautam Buddha Nagar	Yield	303	130	113	110	118
	Area	0.2	-	-	-	-
	Prodn.	0.0	-	-	-	-
Ghazipur	Yield	301.0	-	-	-	-
	Area	0.01	0.08	0.05	0.06	0.05
	Prodn.	0.00	0.03	0.01	0.02	0.01
Gonda	Yield	154	402	304	390	156
	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.1	0.1	0.1	0.1	0.1
Gorakhpur	Yield	304.0	213	295	227	183
	Area	0.3	0.3	0.2	0.2	0.2
	Prodn.	0.09	0.06	0.07	0.05	0.04
Hamirpur	Yield	302.0	213	294	228	183
	Area	60.5	23	29.0	42	40
	Prodn.	16.1	4	6.0	9	7
Hardoi	Yield	266	171	207.0	220.0	164
	Area	28	19	18	18	17.1
	Prodn.	20.2	15	13	9.1	10.2
Hathras	Yield	711	756	710.0	500.0	599
	Area	0.3	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.01	0.02	0.03	0.02
Jalaun	Yield	302.0	210.0	292	221	189
	Area	74	25.9	30.4	46	49.1
	Prodn.	17	5	14	13	20.8
Jaunpur	Yield	232	187	460.0	272	424
	Area	0.6	0.8	0.6	0.7	1.0
	Prodn.	0.1	0.3	0.2	0.3	0.2
Jhansi	Yield	132	407.0	294	392	157
	Area	128	74	76	80.2	107.2
	Prodn.	58.0	13	20.9	6.1	3
Kannauj	Yield	455	181	274	76	32
	Area	1	3	2	2	2.0
	Prodn.	0.1	0.5	0.3	1.0	0.7
Kanpur Dehat	Yield	60.0	167	182	517	349
	Area	3	2	2	2	2

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
	Prod.	0.2	0.4	0.3	0.5	0.3
	Yield	60	189	207	194	132
	Area	3	2	2	3	3
Kanpur Nagar	Prod.	0.2	0.5	0.5	0.7	0.2
	Yield	60.0	275	215	194	83
	Area	0.9	0.7	0.5	0.8	0.8
Kasganj	Prod.	0.3	0.2	0.2	0.2	0.1
	Yield	303	214	295	226	184
	Area	2	1.0	1.4	1	2.1
Kaushambi	Prod.	0.3	0.2	0.2	0.2	0.3
	Yield	158	175	151	121	121
	Area	7	5	4	4.0	4
Kheri	Prod.	6	0.1	0.7	0.6	0.4
	Yield	842	19	189	145	106.0
	Area	0.1	0.1	0.1	0.1	0.1
Kushi Nagar	Prod.	0.0	0.0	0.0	0.0	0.0
	Yield	307	211	291	232	188
	Area	7	8	7	7	8
Lalitpur	Prod.	0.9	1	0.8	0.9	0.3
	Yield	130	147	112	123	35
	Area	0.5	2	0.8	0.8	2
Lucknow	Prod.	0.3	1.0	0.4	0.2	0.6
	Yield	579	634	427	274	345
	Area	0.15	0.07	0.15	0.06	0.05
Mahaajganj	Prod.	0.05	0.02	0.04	0.01	0.01
	Yield	303	224	293	219	176
	Area	66	25	24	31	30
Mahoba	Prod.	7.1	2	6	18	3
	Yield	107	74	258	587	95
	Area	0.2	0.5	0.4	0.3	0.4
Mainpuri	Prod.	0.1	0.1	0.0	0.0	0.1
	Yield	304	130	113	110	117
	Area	0.5	0.5	0.3	0.5	0.4
Mathura	Prod.	0.16	0.07	0.04	0.05	0.05
	Yield	302	131	112	111	117
	Area	0.02	0.02	0.02	0.04	0.03
Mau	Prod.	0.01	0.00	0.01	0.01	0.01
	Yield	292	211	294	229	200.0
	Area	0.01	-	0.00	0.004	0.00
Meerut	Prod.	0.002	-	0.00	0.001	0.00
	Yield	250.0	-	0.0	250.0	0.0
	Area	1	0.7	2	1	1
Mirzapur	Prod.	0.2	0.0	0.2	0.2	0.2
	Yield	145	47	109.0	127	149
	Area	0.08	0.02	0.02	0.02	0.03
Moradabad	Prod.	0.02	0.00	0.01	0.01	0.01
	Yield	307	250	316	208	192

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Pilibhit	Area	1.0	2	0.6	1	0.8
	Prod.	0.2	0.3	0.1	0.1	0.1
	Yield	193	169	98	69	86
Pratapgarh	Area	0.5	0.5	0.1	0.6	1.0
	Prod.	0.1	0.1	0.0	0.1	0.2
	Yield	104.0	122	287	212	171
Rae Bareli	Area	5	3	3	3	4
	Prod.	3	2	1	0.8	1
	Yield	578	634	416	274	345
Rampur	Area	0.01	0.04	0.04	0.06	0.04
	Prod.	0.00	0.01	0.01	0.01	0.01
	Yield	286	214	289	226	179
Saharanpur	Area	0.10	0.05	0.05	0.17	0.09
	Prod.	0.03	0.01	0.02	0.04	0.02
	Yield	299	212	294	227	181
Sambhal	Area	2	0.8	0.8	0.6	0.3
	Prod.	0.5	0.2	0.3	0.1	0.1
	Yield	303.0	213	295	226	185
Sant Kabeer Nagar	Area	0.2	0.2	0.1	0.4	0.2
	Prod.	0.1	0.0	0.0	0.1	0.0
	Yield	301.0	213	296	226	185
Sant Ravidas Nagar	Area	0.3	0.2	0.2	0.2	0.3
	Prod.	0.0	0.0	0.0	0.0	0.1
	Yield	147	116	170	192	199
Shahjahanpur	Area	15	9	9	9	6.1
	Prod.	1	1	0.8	0.5	0.6
	Yield	86	140.0	87	63	103.0
Shamli	Area	0.02	0.02	0.02	0.02	0.02
	Prod.	0.005	0.005	0.007	0.005	0.004
	Yield	313	217	304.0	217	174
Shravasti	Area	0.6	0.4	0.3	0.4	0.3
	Prod.	0.2	0.1	0.1	0.1	0.1
	Yield	303.0	213	295	224	185
Siddharth Nagar	Area	0.004	-	-	0.1	-
	Prod.	0.001	-	-	0.01	-
	Yield	250	-	-	218	-
Sitapur	Area	9	11	10.1	9	9
	Prod.	8	4	3	0.7	2.2
	Yield	881	399	312	72	232
Sonbhadra	Area	8	4.2	4.7	5	6
	Prod.	1.1	0.6	0.9	1.0	1
	Yield	145	139	187	211	213
Sultanpur	Area	0.6	0.3	0.3	0.3	0.3
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	200	212	295	226	182
Unnao	Area	18	13	11	11	13
	Prod.	2	2	1	1	2

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Varanasi	Yield	100	129	116	125	156
	Area	0.4	0.2	0.3	0.4	0.4
	Prodn.	0.05	0.1	0.1	0.1	0.1
	Yield	131	409	295	393	158
Uttarakhand						
Almora	Area	0.13	0.12	0.14	0.20	
	Prodn.	0.04	0.03	0.04	0.05	
	Yield	269	274	264	273	
Bageshwar	Area	0.001	0.005	0.009	0.002	
	Prodn.	0.0	0.001	0.002	0.001	
	Yield	0.0	200.0	222	500	
Chamoli	Area	0.01	0.04	0.02	0.02	
	Prodn.	0.002	0.006	0.003	0.003	
	Yield	182	167	158	150.0	
Champawat	Area	0.01	0.04	0.01	0.05	
	Prodn.	0.001	0.008	0.003	0.01	
	Yield	200	211	214	180.0	
Dehradun	Area	0.08	0.09	0.09	0.09	
	Prodn.	0.02	0.02	0.02	0.02	
	Yield	284	267	271	233	
Haridwar	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	239	241	246	252	
Nainital	Area	0.02	0.01	0.02	0.02	
	Prodn.	0.002	0.001	0.002	0.003	
	Yield	105.0	111	133	158	
Pauri Garhwal	Area	0.03	0.06	0.06	0.02	
	Prodn.	0.01	0.01	0.01	0.01	
	Yield	303.0	196	200.0	217	
Pithoragarh	Area	0.06	0.05	0.05	0.03	
	Prodn.	0.02	0.01	0.01	0.01	
	Yield	286	292	286	276	
Rudra Prayag	Area	0.005	0.002	0.010	0.013	
	Prodn.	0.002	0.001	0.002	0.003	
	Yield	400.0	500.0	200.0	231	
Tehri Garhwal	Area	0.4	0.5	0.5	0.5	
	Prodn.	0.1	0.1	0.2	0.2	
	Yield	258	300.0	315	319	
Udam Singh Nagar	Area	-	-	-	-	
	Prodn.	-	-	-	-	
	Yield	-	-	-	-	
Uttar Kashi	Area	0.6	0.7	0.7	0.6	
	Prodn.	0.2	0.2	0.2	0.2	
	Yield	300.0	338	337	345	
West Bengal						
Paraganas North	Area	9	10	12	11.6	
	Prodn.	11	12.1	17	16	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
Paraganas South	Yield	1198	1225	1327	1418	
	Area	2.2	2.9	3.0	3	
	Prodn.	2	2	4	3	
Alipurduar	Yield	875	844	1438	931	
	Area	-	0.5	0.5	0.4	
	Prodn.	-	0.3	0.4	0.4	
Bankura	Yield	-	672	804	823	
	Area	20	25	27	25	
	Prodn.	15	22	23	18	
Birbhum	Yield	738	903.0	842	735	
	Area	5	6	6.0	5	
	Prodn.	4	4	6.3	5	
Cooch-Behar	Yield	707	642	1044	851	
	Area	0.7	0.7	0.6	0.3	
	Prodn.	0.5	0.5	0.4	0.2	
Darjeeling	Yield	723	713	720.0	697	
	Area	0.2	0.2	0.2	0.2	
	Prodn.	0.2	0.2	0.2	0.2	
Dinajpur Dakshin	Yield	670.0	744	882	826	
	Area	-	-	-	0.1	
	Prodn.	-	-	-	0.1	
Dinajpur Uttar	Yield	-	-	-	835	
	Area	1.3	1	1	1	
	Prodn.	0.7	0.8	0.8	0.7	
Hooghly	Yield	545	603.0	545	589	
	Area	42.1	37	40	40	
	Prodn.	43	38	45.6	46	
Howrah	Yield	1030	1029	1143	1143	
	Area	2	3	3	2	
	Prodn.	1	4	3.3	2.8	
Jalpaiguri	Yield	872	1508	1165	1191	
	Area	1	1.0	0.8	1.0	
	Prodn.	0.8	0.7	0.8	0.8	
Jhargram	Yield	663	667	1002	822	
	Area	-	7	6	5	
	Prodn.	-	5	6	5	
Maldah	Yield	-	738	1014.0	947	
	Area	0.4	0.4	0.3	0.2	
	Prodn.	0.2	0.3	0.2	0.2	
Medinipur East	Yield	603.0	743	838	870.0	
	Area	0.3	0.3	0.3	0.3	
	Prodn.	0.3	0.3	0.3	0.2	
Medinipur West	Yield	1086	986	975	859	
	Area	77	74	72	74	
	Prodn.	71	65	65	61	
Murshidabad	Yield	921	868	901	826	
	Area	21	22	23	21	

State / District		2015-16	2016-17	2017-18	2018-19	2019 -20
	Prod.	15.8	18	20	19	
	Yield	744	841	861	902	
	Area	26	26	29	30	
Nadia	Prod.	32	27.1	29.4	33	
	Yield	1232	1028	998	1124	
	Area	-	0.3	0.2	0.2	
Paschim Brdhaman	Prod.	-	0.2	0.2	0.2	
	Yield	-	984	716	860	
	Area	18	17	18	18	
Purba Bardhaman	Prod.	14	15	16.1	18	
	Yield	763	892	888	993	
	Area	1	1	1	0.7	
Purulia	Prod.	0.8	1	0.9	0.6	
	Yield	625	846	765	793	

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

6. Sunflower

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6.1 World Area, Production and Yield of Sunflower

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Prod.	Yield
2015	25487	44330	1739
2016	26335	47476	1803
2017	26842	48612	1811
2018	26801	51910	1937
2019	27369	56073	2049

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

6.2 Area, Production and Yield of Sunflower in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Afghanistan	Area	0.2	0.5	0.6	0.6	1.0
	Prod.	0.3	0.7	0.8	0.9	0.9
	Yield	1443	1432	1422	1413	899
Albania	Area	0.7	0.7	0.5	0.4	0.4
	Prod.	2	2	1	0.85	1.01
	Yield	2857	2900	2225	2280	2308
Algeria	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	443	444	447	453	456
Angola	Area	17	17	17	17	17
	Prod.	12	12	12	12	12.04
	Yield	707	707	707	708	708
Argentina	Area	1440	1414	1819	1678	1876
	Prod.	3158	3000	3547	3538	3826
	Yield	2193	2122	1950	2108	2039
Australia	Area	25	23	16	14	11
	Prod.	30.42	19	17	14	9
	Yield	1198	841	1075	952	842
Austria	Area	19	18	22	22	21
	Prod.	38	60	51	61	65
	Yield	1997	3294	2334	2836	3037
Azerbaijan	Area	11	8	15	12	16
	Prod.	18	17	30	24	34
	Yield	1723	2024	1961	2042	2130
Belarus	Area	0.4	0.8	0.8	0.7	0.9
	Prod.	0.3	1	1	1	1
	Yield	752	1465	1280	1447	1660
Bolivia	Area	103	147	101	109	110
	Prod.	106	131	68	121	137
	Yield	1022	890	675	1114	1249
Bosnia and Herzegovina	Area	0.4	0.3	0.3	0.3	0.5

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	0.5	0.6	0.5	0.5	1
	Yield	1136	1832	1452	1524	2204
	Area	2	3	0.3	1.7	0.5
Botswana	Prodn.	1.4	1.7	0.1	0.8	0.1
	Yield	857	611	264	501	130
	Area	112	61	60	85	82
Brazil	Prodn.	155	81	104	136	133
	Yield	1387	1319	1731	1606	1630
Bulgaria	Area	810.84	818	899	789	816
	Prodn.	1699	1874	2056.99	1944	1937
	Yield	2096	2292	2289	2465	2375
Canada	Area	38	28	26	27	29
	Prodn.	73	51	58	57	63
	Yield	1891	1840	2259	2130	2184
Chile	Area	3	2	7	6	3
	Prodn.	4	2	11	8	4
	Yield	1412	1058	1579	1288	1301
China	Area	1036	973	1171	921	850
	Prodn.	2698	2610	3149	2494	2420
	Yield	2604	2682	2690	2707	2847
Croatia	Area	34	40.25	37	37	36
	Prodn.	94	111	116	111	107
	Yield	2727	2747	3119	2984	2962
Czechia	Area	15	16	22	20.20	12
	Prodn.	32	45	53	48	29
	Yield	2047	2852	2461	2356	2435
Ecuador	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	1790	1767	1779	1800	1813
Egypt	Area	7	6	7	7	7
	Prodn.	22	19	20	21	21
	Yield	3375	2962	2905	2849	3000
Ethiopia	Area	7	6	6	6	6
	Prodn.	7	7	7	7	7
	Yield	901	1128	1245	1252	1176
France	Area	619	537	586	552	604
	Prodn.	1187	1172	1599	1239	1298
	Yield	1918	2183	2728	2244	2150
Georgia	Area	6	4	4	3	3
	Prodn.	4	3	2	3	3
	Yield	705	889	512	1035	1040
Germany	Area	18	17	18	20	23
	Prodn.	35	36	40	36	46
	Yield	1919	2138	2200	1821	2044
Greece	Area	94	76	75	83	101
	Prodn.	199	186	203	231	299
	Yield	2122	2438	2705	2800	2968

Country	Unit	2015	2016	2017	2018	2019
Hungary	Area	612	630	695	617	564
	Prodn.	1557	1875	2022	1830	1707
	Yield	2546	2978	2912	2967	3026
India	Area	470	474	381	284	262
	Prodn.	296	251	251	222	216
	Yield	630	530	660	782	826
Iran	Area	44	40	40	40	78
	Prodn.	43	40	40	40	86
	Yield	979	1000	1000	1000	1103
Iraq	Area	0.5	0.5	0.3	0.03	0.32
	Prodn.	0.8	0.9	0.5	0.07	0.8
	Yield	1766	1758	1793	2226	2542
Israel	Area	3	1	2	0.51	1
	Prodn.	16	10.39	4	4.05	5
	Yield	5414	7118	2500	7941	4378
Italy	Area	114	111	114	104	119
	Prodn.	248	268	244	250	295
	Yield	2167	2424	2129	2411	2487
Kazakhstan	Area	701	807	883	850	815
	Prodn.	534	755	903	848	839
	Yield	762	935	1023	998	1029
Kenya	Area	14	14	14	14.07	14
	Prodn.	14	14	15	14	14
	Yield	1000	1015	1027	1021	1024
Kyrgyzstan	Area	28	23	19	16	12
	Prodn.	34	29	24	20	15
	Yield	1215	1261	1260	1281	1296
Malawi	Area	15.05	16	19	19	18
	Prodn.	14	16	21	20.31	20
	Yield	930	974	1108	1058	1069
Mexico	Area	15	9	7	7	3
	Prodn.	14	9	9	10	5
	Yield	939	1051	1251	1429	1768
Morocco	Area	37	38	19	22	22
	Prodn.	52	30.16	24	38	29
	Yield	1418	795	1258	1732	1326
Mozambique	Area	12	13	16	15	16
	Prodn.	8	9	11	12	14
	Yield	700	704	704	800	875
Myanmar	Area	466	408	275	257	252
	Prodn.	440	388	249	234	226
	Yield	945	950	904	911	899
North Macedonia	Area	6	4	4	2	5
	Prodn.	9	6	6	3	7
	Yield	1534	1608	1536	1440	1420
Pakistan	Area	141	83	87	104.74	103.58
	Prodn.	169	86	106	147	133

Country	Unit	2015	2016	2017	2018	2019
Paraguay	Yield	1194	1041	1218	1406	1281
	Area	56	41	41	31	28
	Prodn.	101	65	65	49	39
Poland	Yield	1808	1600	1600	1600	1400
	Area	1	2.03	3	6	2
	Prodn.	2	4	6	9	4
Portugal	Yield	1645	1747	1925	1630	1965
	Area	20	18	13	9	8
	Prodn.	25	26	21	16	14
Republic of Moldova	Yield	1242	1441	1546	1688	1660
	Area	329	361	384	363	357
	Prodn.	485	677	804	789	811
Romania	Yield	1473	1875	2093	2175	2272
	Area	1009	1038	999	1007	1283
	Prodn.	1786	2032	2913	3063	3569
Russian Federation	Yield	1770	1957	2915	3041	2783
	Area	6545	7294	7244	7953	8415
	Prodn.	9280	11015	10481	12756	15379
Serbia	Yield	1418	1510	1447	1604	1828
	Area	166	200.30	219	239	219
	Prodn.	437	621	541	734	729
Slovakia	Yield	2630	3101	2465	3068	3323
	Area	75	84	87	69	49
	Prodn.	174	247	219	204	130
Slovenia	Yield	2311	2942	2505	2963	2671
	Area	0.2	0.2	0.3	0.3	0.3
	Prodn.	1	1	1	1	1
South Africa	Yield	2513	2490	1753	2724	2424
	Area	576	719	636	602	515
	Prodn.	663	755	874	862	678
South Sudan	Yield	1151	1051	1375	1433	1316
	Area	33	35	38	41	44
	Prodn.	56	62	68	74	80
Spain	Yield	1708	1748	1770	1791	1812
	Area	739	718	725	691	702
	Prodn.	769	772	842	961	782
Sudan	Yield	1041	1076	1162	1390	1115
	Area	92	122	202	208	206
	Prodn.	70	87	153	108	107
Switzerland	Yield	758	712	757	520	519
	Area	5	5	5	5	6
	Prodn.	10	13	16	17	18
Syrian Arab Republic	Yield	2143	2661	3128	3066	2999
	Area	5	5	0.02	--	--
	Prodn.	6	6	0.02	--	--
Tajikistan	Yield	1200	1200	1467	--	--
	Area	6	5	5	4	4.01

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	14	12	12	10.97	11
	Yield	2266	2415	2381	2498	2857
	Area	5	31	31	31	31
Thailand	Prodn.	9.08	25	25	25	25
	Yield	1897	807	807	807	807
	Area	7	8	8	7	6
Tunisia	Prodn.	6	6	6	6	5
	Yield	874	832	796	777	758
	Area	685	718	779	734	752
Turkey	Prodn.	1681	1671	1964	1949	2100
	Yield	2453	2326	2520	2655	2794
	Area	250.00	250.00	256	272	265
Uganda	Prodn.	245	237	243	272	260
	Yield	979	949	950	1001	981
	Area	5166	6087	6061	6167	5959
Ukraine	Prodn.	11181	13627	12236	14165	15254
	Yield	2164	2239	2019	2297	2560
	Area	1788	930	960	980	1000
United Republic of Tanzania	Prodn.	2879	950	990	1000	1040
	Yield	1610	1022	1031	1020	1040
	Area	728	620	540	493	504
United States of America	Prodn.	1326	1203	970	956	882
	Yield	1821	1940	1796	1940	1750
	Area	--	--	--	--	3
Uruguay	Prodn.	--	--	--	--	3
	Yield	--	--	--	--	1129
	Area	12	12	8	8	10
Uzbekistan	Prodn.	50.13	54	27	27	41
	Yield	4109	4660	3488	3513	4064
	Area	8	22	2	18	22
Venezuela	Prodn.	8.06	14	0.70	4	8
	Yield	978	659	379	242	368
	Area	65	116	99	91	63
Zambia	Prodn.	35	61.07	50.22	48	34
	Yield	538	527	505	522	547
	Area	17	8	8	11	8
Zimbabwe	Prodn.	6	3	5	6	4
	Yield	385	387	632	561	464
	Area	2937	2301	2306	2313	2209
Africa	Prodn.	4090	2271	2501	2500	2325
	Yield	1393	987	1084	1081	1053
	Area	2504	2343	2603	2453	2658
Americas	Prodn.	4946	4556	4833	4879	5099
	Yield	1975	1945	1857	1989	1919
	Area	3620	3593	3702	3265	3190
Asia	Prodn.	6013	5958	6789	6048	6156
	Yield	1661	1658	1834	1853	1930

Country	Unit	2015	2016	2017	2018	2019
Europe	Area	16400	18075	18215	18756	19301
	Prodn.	29251	34672	34472	38469	42483
	Yield	1784	1918	1893	2051	2201
Oceania	Area	25	23	16	14	11
	Prodn.	30	19	17	14	9
	Yield	1198	841	1075	952	842
World	Area	25487	26335	26842	26801	27369
	Prodn.	44330	47476	48612	51910	56073
	Yield	1739	1803	1811	1937	2049

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

6.3 All India Area, Production and Yield of Sunflower

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Sunflower over Total Area under Oilseeds	% Area Covered under Irrigation(#)
2015-16	487	296	608	2	29
2016-17	381	251	660	1	NA
2017-18	284	222	782	1	NA
2018-19	262	216	826		NA
2019-20	228	213	931		

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>;

(#) Provisional; NA: Not Available

6.4 State-wise Area, Production and Yield of Sunflower in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State/UT	Season		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Kharif	Area	7	9	3	3	2
		Prodn.	5	6	2	2	1.4
		Yield	714	667	738	557	698
	Rabi	Area	20	12	6	10	7
		Prodn.	18	15	9	7	7.1
		Yield	900	1250	1544	731	1012
	Total	Area	27	21	9	13	9
		Prodn.	23	21	11	9	8.5
		Yield	852	1000	1275	691	942.2
Arunachal Pradesh	Kharif	Area	-	0.5	1	1	0.6
		Prodn.	-	0.4	0.5	0.5	0.5
		Yield	-	802	816	817	817
Bihar	Kharif	Area	2	2	1	1	1.3
		Prodn.	3	2	1	2	1.7
		Yield	1323	1287	1291	1343	1280.2
	Rabi	Area	10	8	8	6	6.8
		Prodn.	14	12	12	9	9.8
		Yield	1440	1463	1448	1448	1448.7
	Total	Area	11	10	9	7	8.1
		Prodn.	16	14	13	10	11.5

State/UT	Season		2015-16	2016-17	2017-18	2018-19	2019-20
Chhattisgarh	Kharif	Yield	1421	1428	1429	1430	1421.2
		Area	0.4	0.6	-	0.1	-
		Prodn.	0.2	0.3	-	0.04	-
	Rabi	Yield	500	500	-	628	-
		Area	-	0.4	-	--	-
		Prodn.	-	0.2	-	--	-
		Yield	-	500	-	--	-
	Total	Area	0.4	1	-	0.1	-
		Prodn.	0.2	0.5	-	0.04	-
		Yield	500	500	-	628	-
Gujarat	Kharif	Area	-	-	-	16	0.5
		Prodn.	-	-	-	16	0.9
		Yield	-	-	-	1055	1820
	Rabi	Area	-	-	-	-	-
		Prodn.	-	-	-	-	-
		Yield	-	-	-	-	-
	Total	Area	-	-	-	-	-
Prodn.		-	-	-	-	-	
Haryana	Kharif	Area	-	8	-	--	-
		Prodn.	-	12	-	--	-
		Yield	-	1393	-	--	-
	Rabi	Area	9	-	5	10	9.1
		Prodn.	19	-	9	18	16.8
		Yield	2056	-	1886	1905	1846
		Area	9	8	5	10	9.1
	Total	Prodn.	19	12	9	18	16.8
		Yield	2056	1393	1886	1905	1846
		Area	0.2	1	0.4	0.4	0.1
Jharkhand	Kharif	Prodn.	0.1	0.7	0.3	0.2	0.1
		Yield	712	544	700	552	523
		Area	1	1	2	1	0.4
	Rabi	Prodn.	1	0.7	1	0.3	0.2
		Yield	466	502	518	459	547
		Area	2	2.9	2	1	0.5
	Total	Prodn.	1	1.5	1	1	0.3
		Yield	498	522	553	490	541
		Area	125	134	111	90	101.0
Karnataka	Kharif	Prodn.	51	78	68	81	80.4
		Yield	408	582	612	896	796
		Area	205	86	62	47	28.0
	Rabi	Prodn.	101	20	39	25	23.0
		Yield	490	233	629	531	821
		Area	330	220	173	137	129.0
	Total	Prodn.	152	98	107	106	103.4
		Yield	459	445	618	772	802
Madhya Pradesh	Kharif	Area	1	1	1	--	--

Sunflower

State/UT	Season		2015-16	2016-17	2017-18	2018-19	2019-20
		Prodn.	1	1	1	--	--
		Yield	1000	1000	1000	--	--
		Area	-	2	2	--	--
	Rabi	Prodn.	-	2	2	--	--
		Yield	-	1000	1000	--	--
		Area	1	3	3	--	--
	Total	Prodn.	1	3	3	--	--
		Yield	1000	1000	1000	--	--
		Area	18	21	16	21	19
	Maharashtra	Kharif	Prodn.	2	5	8	4	7
Yield			111	280	483	193	352
Area			29	38	24	16	9
Rabi		Prodn.	8	29	13	3	5
		Yield	276	768	512	33	112
		Area	47	59	40	38	28
Total		Prodn.	10	35	20	7	12
		Yield	213	594	501	190	436
		Area	-	0.3	0.4	0.4	0.4
Nagaland		Kharif	Prodn.	-	0.3	0.3	0.3	0.3
	Yield		-	857	886	889	889
	Area		-	2	2	2	2.4
	Rabi	Prodn.	-	1	1	1	1.5
		Yield	-	613	612	612	612
		Area	-	2	3	3	2.7
	Total	Prodn.	-	1	2	2	1.8
		Yield	-	646	649	649	649
		Area	0.3	0.3	0.2	0.2	0.6
	Odisha	Kharif	Prodn.	0.2	0.2	0.2	0.1	0.5
Yield			690	706	712	720	722
Area			16	17	12	16	16
Rabi		Prodn.	19	21	15	20	21
		Yield	1198	1200	1255	1258	1287
		Area	16	18	12	16	16.6
Total		Prodn.	19	21	15	20	21.0
		Yield	1189	1191	1245	1253	1266
		Area	6	5	6	5	4.3
Punjab		Rabi/Summer	Prodn.	12	9	10	10	8.0
	Yield		1797	1655	1840	1933	1859
	Area		2	1	0.5	0.5	0.2
Tamil Nadu	Kharif	Prodn.	3	1	1.1	0.9	0.2
		Yield	1413	857	1944	1734	995
		Area	6	5	6	5	4
	Rabi	Prodn.	6	1	5	3	4
		Yield	951	226	795	577	898
		Area	8	7	7	5	4.3
Total	Prodn.	9	2	6	3	3.8	
	Yield	1060	392	887	641	902	

State/UT	Season		2015-16	2016-17	2017-18	2018-19	2019-20
Telangana	Kharif	Area	1	1	1	--	
		Prodn.	1	1	2	--	
		Yield	1000	1000	2119	--	
	Rabi	Area	11	5	3	2	4
		Prodn.	12	9	6	4	9
		Yield	1091	1800	2135	1960	2231
	Total	Area	12	6	4	2	4
		Prodn.	13	10	9	4	9
		Yield	1083	1667	2131	1960	2231
Uttar Pradesh	Rabi	Area	2	3	2	1	4
		Prodn.	4	4	3	1	6
		Yield	2000	1333	1442	1365	1382
West Bengal	Rabi	Area	12	11	-	8	7.8
		Prodn.	17	15	-	8	9.6
		Yield	1417	1312	-	952	1221
Others	Kharif	Area	1	-	-	--	--
		Prodn.	0.4	-	-	--	--
		Yield	711	-	-	--	--
	Rabi	Area	2	-	-	--	--
		Prodn.	1	-	-	--	--
		Yield	613	-	-	--	--
	Total	Area	3	-	-	--	--
		Prodn.	2	-	-	--	--
		Yield	633	-	-	--	--
India	Kharif	Area	158	182	135	118	125
		Prodn.	66	110	85	90	91.70
		Yield	420	607	627	766	731
	Rabi	Area	329	198	148	144	103
		Prodn.	230	140	137	126	121
		Yield	698	708	924	874	1174
	Total	Area	487	381	284	262	228.3
		Prodn.	296	251	222	216	212.5
		Yield	608	660	782	826	931

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

6.5 District-wise Area Production and Yield of Sunflower in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Andaman and Nicobar Islands						
North And Middle Andaman	Area	0.0005	0.0005	-	0.0002	
	Prodn.	0.0002	0.0004	-	0.0006	
	Yield	400	800	-	3000	
Andhra Pradesh						
Ananthapur	Area	5	4	2	3	2
	Prodn.	3	1	1	1	2
	Yield	546	383	505	415	666

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Chittoor	Area	1	1	1	1	0.5
	Prod.	1	1	1	1	0.5
	Yield	855	1276	1726	832	1004
East Godavari	Area	0.1	0.1	0.1	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.2
	Yield	1081	767	939	310	1033
Guntur	Area	0.002	-	-	0.06	0.01
	Prod.	0.002	-	-	0.02	0.01
	Yield	1000	-	-	305	1000
Kadapa	Area	9	9	3	6	4
	Prod.	9	11	6	5	5
	Yield	970	1281	1939	921	1105
Krishna	Area	0.01	0.01	0.004	0.03	0.02
	Prod.	0.01	0.00	0.004	0.01	0.02
	Yield	1077	800	1000	310	1000
Kurnool	Area	5	5	2	2	1
	Prod.	4	4	2	1	0
	Yield	823	938	989	688	708
Prakasam	Area	4	1	0.4	0.6	0.4
	Prod.	4	1	0.4	0.1	0.4
	Yield	1137	1059	1000	228	1076
SPSR Nellore	Area	1	1	0.3	0.5	0.1
	Prod.	1	2	0.4	0.5	0.1
	Yield	1049	1201	1086	1000	1194
Srikakulam	Area	1	0.5	0.6	0.6	0.3
	Prod.	1	0.4	0.6	0.2	0.3
	Yield	1077	764	939	308	1042
Vishakapatnam	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	0.1	0.1	0.1	0.03	0.1
	Yield	1076	765	939	364	1027
Vijayanagaram	Area	-	-	0.001	0.01	0.01
	Prod.	-	-	0.001	0.003	0.01
	Yield	-	-	1000	273	1167
West Godavari	Area	0.2	0.1	0.1	0.13	0.04
	Prod.	0.2	0.1	0.1	0.04	0.04
	Yield	1080	763	941	305	841
Arunachal Pradesh						
Changlang	Area	-	0.1	0.1	0.1	
	Prod.	-	0.05	0.1	0.1	
	Yield	-	570	1805	1427	
Dibang Valley	Area	-	0.05	0.06	0.06	
	Prod.	-	0.04	0.05	0.05	
	Yield	-	830	839	839	
East Siang	Area	-	0.06	0.07	0.05	
	Prod.	-	0.05	0.05	0.04	
	Yield	-	778	788	800	
Lohit	Area	-	0.04	0.04	0.04	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	-	0.04	0.04	0.04	
	Yield	-	878	886	886	
	Area	-	0.05	0.07	0.07	
Lower Dibang Valley	Prodn.	-	0.04	0.02	0.02	
	Yield	-	933	278	278	
	Area	-	-	-	0.03	
Lower Siang	Prodn.	-	-	-	0.05	
	Yield	-	-	-	1923	
	Area	-	0.04	0.04	0.04	
Lower Subansiri	Prodn.	-	0.04	0.04	0.04	
	Yield	-	900	1053	1053	
	Area	-	0.05	0.08	0.08	
Namsai	Prodn.	-	0.04	0.05	0.05	
	Yield	-	815	641	641	
	Area	-	0.07	0.03	0.03	
Papum Pare	Prodn.	-	0.06	0.01	0.01	
	Yield	-	855	424	424	
	Area	-	0.05	0.05	0.05	
Siang	Prodn.	-	0.04	0.03	0.03	
	Yield	-	843	500	500	
	Area	-	0.05	0.05	0.04	
West Siang	Prodn.	-	0.04	0.03	0.02	
	Yield	-	778	604	600	
	Bihar					
Araria	Area	0.9	0.5	0.2	0.2	0.03
	Prodn.	1.2	0.7	0.3	0.3	0.04
	Yield	1413	1364	1411	1431	1233
Begusaria	Area	0.1	0.1	0.1	0.02	0.2
	Prodn.	0.1	0.1	0.1	0.03	0.2
	Yield	1419	1527	1492	1476	1487
Bagalpur	Area	0.2	0.2	0.2	0.2	0.2
	Prodn.	0.3	0.2	0.2	0.2	0.2
	Yield	1441	1484	1463	1463	1469
Darbhanga	Area	-	-	-	0.02	0.01
	Prodn.	-	-	-	0.03	0.02
	Yield	-	-	-	1421	1429
Gaya	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
Jehanabad	Area	-	-	-	0.003	0.003
	Prodn.	-	-	-	0.004	0.004
	Yield	-	-	-	1333	1333
Katahar	Area	1	0.07	0.01	0.01	-
	Prodn.	1	0.10	0.01	0.01	-
	Yield	1447	1493	1400	1500	-
Khagaria	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1

Sunflower

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	1443	1528	1474	1482	1495
Kishanganj	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
Madhepura	Area	4	3	3	1	2
	Prodn.	6	5	4	2	3
	Yield	1422	1430	1427	1392	1411
Madhubani	Area	-	-	-	0.001	0.001
	Prodn.	-	-	-	0.001	0.001
	Yield	-	-	-	1000	1000
Muzaffarpur	Area	-	-	-	0.002	0.001
	Prodn.	-	-	-	0.003	0.001
	Yield	-	-	-	1500	1000
Nalanda	Area	0.08	0.05	0.04	0.02	0.11
	Prodn.	0.11	0.07	0.05	0.03	0.15
	Yield	1407	1431	1417	1478	1453
Nawada	Area	0.01	0.01	0.04	0.04	0.04
	Prodn.	0.01	0.01	0.06	0.06	0.05
	Yield	1143	1143	1452	1439	1459
Pashchim Champaran	Area	0.01	0.01	0.01	0.01	0.01
	Prodn.	0.02	0.02	0.02	0.01	0.01
	Yield	1429	1429	1364	1429	1429
Patna	Area	0.02	0.02	0.03	0.04	0.02
	Prodn.	0.04	0.03	0.04	0.05	0.03
	Yield	1458	1500	1448	1457	1471
Purbi Champaran	Area	0.01	0.01	0.01	0.01	0.01
	Prodn.	0.01	0.01	0.01	0.01	0.01
	Yield	1273	1273	1273	1300	1300
Purnia	Area	2	2	0.33	0.03	0.02
	Prodn.	2	2	0.49	0.05	0.02
	Yield	1446	1463	1464	1500	1467
Rohtas	Area	-	-	-	0.001	0.002
	Prodn.	-	-	-	0.001	0.003
	Yield	-	-	-	1000	1500
Saharsa	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.2
	Yield	1423	1431	1427	1427	1430
Samastipur	Area	0.1	0.003	-	-	-
	Prodn.	0.1	0.004	-	-	-
	Yield	1449	1333	-	-	-
Saran	Area	0.05	-	-	-	-
	Prodn.	0.06	-	-	-	-
	Yield	1235	-	-	-	-
Sheohar	Area	0.0	0.1	0.1	0.01	0.01
	Prodn.	0.1	0.1	0.2	0.01	0.01
	Yield	1435	1461	1417	1286	1286
Supaul	Area	2	3	4	5	5

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	3	4	6	7	7
	Yield	1389	1386	1421	1411	1412
Chhattisgarh						
	Area	0.04	0.03	0.04	0	
Balod	Prodn.	0.01	0.01	0.05	0	
	Yield	368	412	1457	0	
	Area	-	-	-	0	
Balarampur	Prodn.	-	-	-	0	
	Yield	-	-	-	500	
	Area	-	-	-	0	
Bastar	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
	Area	0.02	-	-	-	
Bemetara	Prodn.	0.01	-	-	-	
	Yield	600	-	-	-	
	Area	-	-	-	0.04	
Bilaspur	Prodn.	-	-	-	0.01	
	Yield	-	-	-	179	
	Area	-	-	-	0	
Dhamtari	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
	Area	0.3	0	-	0	
Janjgir-Champa	Prodn.	0.2	0	-	0	
	Yield	486	0	-	0	
	Area	-	-	-	0.03	
Kanker	Prodn.	-	-	-	0.02	
	Yield	-	-	-	556	
	Area	-	-	-	0	
Kondagaon	Prodn.	-	-	-	0	
	Yield	-	-	-	38	
	Area	-	-	-	0	
Korba	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
	Area	0.4	0	-	0	
Mahasamund	Prodn.	0.2	0	-	0	
	Yield	470	0	-	0	
	Area	1	2	-	0	
Raigarh	Prodn.	0.3	0	-	0	
	Yield	224	0	-	0	
	Area	-	-	-	0	
Raipur	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
	Area	-	-	-	0	
Surajpur	Prodn.	-	-	-	0	
	Yield	-	-	-	0	
	Area	-	-	-	0.028	
Surguja	Prodn.	-	-	-	0.003	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	-	-	107	
Haryana						
Ambala	Area	-	-	-	-	
	Prodn.	-	-	-	-	
	Yield	-	-	-	-	
Kurukshetra	Area	-	-	-	-	
	Prodn.	-	-	-	-	
	Yield	-	-	-	-	
Yamunanagar	Area	-	-	-	-	
	Prodn.	-	-	-	-	
	Yield	-	-	-	-	
Jharkhand						
Bokaro	Area	-	-	0.1	-	-
	Prodn.	-	-	0.1	-	-
	Yield	-	-	583	-	-
Chatra	Area	-	0.01	0.03	0.14	-
	Prodn.	-	0.01	0.02	0.06	-
	Yield	-	2400	741	416	-
Deoghar	Area	0.02	-	0.09	-	-
	Prodn.	0.02	-	0.05	-	-
	Yield	1167	-	558	-	-
Dumka	Area	-	0.1	0.1	0.1	0.4
	Prodn.	-	0.1	0.02	0.1	0.2
	Yield	-	1687	230	444	638
East Singhum	Area	0.04	0.3	0.2	0.1	-
	Prodn.	5.3	0.2	0.1	0.02	-
	Yield	140053	733	603	453	-
Garhwa	Area	-	-	-	0.002	-
	Prodn.	-	-	-	0.001	-
	Yield	-	-	-	500	-
Godda	Area	-	-	0.06	0.04	-
	Prodn.	-	-	0.05	0.03	-
	Yield	-	-	767	762	-
Khunti	Area	-	-	-	0.003	-
	Prodn.	-	-	-	0.002	-
	Yield	-	-	-	667	-
Koderma	Area	0.002	-	0.02	0.05	-
	Prodn.	0.002	-	0.02	0.05	-
	Yield	1000	-	800	900	-
Latehar	Area	0.31	-	0.04	-	-
	Prodn.	0.17	-	0.02	-	-
	Yield	532	-	600	-	-
Pakur	Area	-	-	-	0.001	-
	Prodn.	-	-	-	0.001	-
	Yield	-	-	-	1000	-
Palamu	Area	0.64	-	0.16	0.01	-
	Prodn.	0.26	-	0.02	0.02	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Ranchi	Yield	403	-	111	1143	-
	Area	-	0.1	0.2	-	-
	Prodn.	-	0.1	0.1	-	-
Saraikelakharsawan	Yield	-	622	627	-	-
	Area	-	0.4	0.8	0.6	-
	Prodn.	-	0.3	0.5	0.3	-
Simdega	Yield	-	601	600	450	-
	Area	-	0.3	0.4	0.01	0.03
	Prodn.	-	0.5	0.2	0.01	0.03
Karnataka						
Bagalkot	Area	29	35	34	40	19
	Prodn.	15	16	36	37	15
	Yield	509	450	1053	938	788
Belgaum	Area	24	10	8	12	9
	Prodn.	9	6	9	12	8
	Yield	393	619	1163	988	840
Bellary	Area	19	14	8	14	12
	Prodn.	10	9	10	12	12
	Yield	507	674	1282	847	1006
Bangalore Rural	Area	-	-	-	0.001	0.007
	Prodn.	-	-	-	0.001	0.005
	Yield	-	-	-	1000	714
Bangalore Urban	Area	-	-	-	0.001	0.006
	Prodn.	-	-	-	0.001	0.005
	Yield	-	-	-	1000	833
Bidar	Area	1	-	-	0.02	0.16
	Prodn.	0.2	-	-	0.002	0.04
	Yield	197	-	-	87	270
Bijapur	Area	45	21	16	9	8
	Prodn.	11	17	15	5	4
	Yield	236	803	905	529	507
Chamarajanagar	Area	9	10	8	6	17
	Prodn.	3	3	6	6	13
	Yield	314	328	736	962	786
Chikballapur	Area	0.1	-	0.1	-	0.1
	Prodn.	0.1	-	0.1	-	0.2
	Yield	1128	-	1065	-	2941
Chikmagalur	Area	5	4	1	2	0
	Prodn.	2	3	0	1	0
	Yield	309	843	638	717	939
Chitradurga	Area	21	6	2	1	3
	Prodn.	10	2	1	1	1
	Yield	507	262	813	666	557
Davangere	Area	3	1	3	0.4	1
	Prodn.	3	1	2	0.4	1
	Yield	764	659	847	1098	686

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Dharwad	Area	3	0.5	4	1	1
	Prodn.	1	0.02	2	0.2	1
	Yield	183	45	453	388	546
Gadag	Area	40	34	31	15	25
	Prodn.	13	6	18	5	13
	Yield	327	188	579	348	528
Gulbarga	Area	41	14	11	7	11
	Prodn.	8	6	12	7	11
	Yield	197	446	1145	955	1044
Hassan	Area	0.9	0.2	0.5	0.002	0.1
	Prodn.	0.5	0.1	0.3	0.001	0.1
	Yield	574	412	696	500	753
Haveri	Area	4	2	2	4	3
	Prodn.	2	2	2	3	3
	Yield	639	720	1241	875	927
Kolar	Area	-	-	-	0.001	0.005
	Prodn.	-	-	-	0.001	0.004
	Yield	-	-	-	1000	800
Koppal	Area	49	34	28	28	17
	Prodn.	21	7	23	13	11
	Yield	425	215	814	453	639
Mandya	Area	-	-	-	0.004	0.005
	Prodn.	-	-	-	0.003	0.004
	Yield	-	-	-	750	800
Mysore	Area	1	0.5	0.3	1.1	0.5
	Prodn.	1	0.1	0.2	1.2	0.2
	Yield	595	248	788	1124	316
Raichur	Area	30	27	17	4	3
	Prodn.	10	17	12	3	2
	Yield	337	626	730	717	667
Ramanagara	Area	-	-	-	0.001	0.002
	Prodn.	-	-	-	0.001	0.002
	Yield	-	-	-	1000	1000
Shimoga	Area	1	0.3	0.2	0.4	1
	Prodn.	1	0.4	0.5	0.9	2
	Yield	1775	1395	2251	2175	2296
Thumkur	Area	0.5	0.4	0.10	0.1	0.02
	Prodn.	0.3	0.2	0.05	0.1	0.02
	Yield	677	542	455	701	875
Uttar Kannad	Area	-	-	-	0.004	0.003
	Prodn.	-	-	-	0.003	0.002
	Yield	-	-	-	750	667
Yadgir	Area	4	6	0.3	0.6	0.8
	Prodn.	1	2	0.4	0.4	0.8
	Yield	240	349	1083	696	964
Madhya Pradesh						
Ashoknagar	Area	-	-	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-
Balaghat	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-
Khandwa	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-
Narsinghpur	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-
Seoni	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	-	-
Maharashtra						
Ahmednagar	Area	0.5	0.5	0.7	0.1	0.4
	Prodn.	0.1	0.4	0.4	0.01	0.5
	Yield	204	827	553	175	1205
Akola	Area	0.07	0.04	0.17	-	0.04
	Prodn.	0.02	0.03	0.07	-	0.02
	Yield	286	850	414	-	421
Amravathi	Area	0.033	0.1	0.01	-	0.01
	Prodn.	0.004	0.01	0.003	-	0.01
	Yield	121	236	429	-	556
Aurangabad	Area	0.1	0.1	0.1	0.05	0.02
	Prodn.	0.01	0.03	0.12	0.01	0.01
	Yield	62	236	795	217	350
Beed	Area	2	1	1	0.05	0.02
	Prodn.	0.2	0.1	0.9	0.01	0.01
	Yield	87	168	806	224	500
Bhandara	Area	-	0	-	-	-
	Prodn.	-	0	-	-	-
	Yield	-	250	-	-	-
Buldhana	Area	0.15	0.05	0.04	0.03	4
	Prodn.	0.03	0.02	0.02	0.01	2
	Yield	181	420	538	333	549
Chandrapur	Area	-	0.10	0.01	-	-
	Prodn.	-	0.10	0.004	-	-
	Yield	-	1000	571	-	-
Dhule	Area	0.01	0.07	0.01	-	0.02
	Prodn.	0.001	0.02	0.01	-	0.01
	Yield	200	343	500	-	333
Gadchiroli	Area	-	-	0.03	-	-
	Prodn.	-	-	0.02	-	-
	Yield	-	-	769	-	-
Hingoli	Area	-	0.09	-	-	0.002
	Prodn.	-	0.09	-	-	0.001

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	1033	-	-	500
Jalgaon	Area	0.05	0.01	0.01	-	0.06
	Prodn.	0.01	0.003	0.01	-	0.03
	Yield	200	333	556	-	466
Jalna	Area	0.10	0.05	-	0.1	0.2
	Prodn.	0.003	0.003	-	0.0	0.09
	Yield	30	58	-	0	548
Kolhapur	Area	1	3	1	0.4	0.3
	Prodn.	1	2	1	0.4	0.3
	Yield	1393	631	944	879	887
Latur	Area	9	3	2	0.4	6
	Prodn.	2	1	1	0.1	3
	Yield	233	413	399	122	442
Nagpur	Area	0.4	0.1	0.1	0	-
	Prodn.	0.1	0.03	0.1	0	-
	Yield	250	242	432	0	-
Nanded	Area	1	9	0.1	0.1	0.2
	Prodn.	0.2	5	0.03	0.05	0.1
	Yield	175	508	500	485	641
Nandurbar	Area	0.5	0.3	0.3	0.2	2
	Prodn.	0.2	0.2	0.2	0.1	1
	Yield	416	520	584	353	894
Nashik	Area	0.11	0.05	0.04	0.003	0.01
	Prodn.	0.01	0.02	0.02	0.001	0.002
	Yield	108	407	535	333	154
Osmanabad	Area	14	17	12	1	12
	Prodn.	2	11	5	0	3
	Yield	180	683	440	165	296
Palghar	Area	0.3	0.1	0.1	0.1	-
	Prodn.	0.1	0.1	0.04	0.01	-
	Yield	333	655	514	171	-
Parbhani	Area	0.5	0.1	0.006	0.02	0.1
	Prodn.	0.04	0.11	0.002	0.002	0.03
	Yield	77	884	333	100	424
Pune	Area	0.2	0.1	0.2	0.1	0.2
	Prodn.	0.04	0.1	0.1	0.01	0.1
	Yield	191	872	541	216	364
Sangli	Area	0.5	0.8	1.3	0.1	0.9
	Prodn.	0.1	0.3	0.7	0.0	0.4
	Yield	140	442	584	0	497
Satara	Area	0.4	20	0.6	0.04	0.2
	Prodn.	0.1	13	0.3	0.01	0.1
	Yield	300	653	523	250	477
Solapur	Area	17	3	21	14	3
	Prodn.	4	1	11	2	1
	Yield	230	353	517	169	396
There	Area	-	0.4	0.2	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	-	0.1	0.1	-	-
	Yield	-	250	575	-	-
	Area	-	0.01	-	-	-
Wardha	Prodn.	-	0.01	-	-	-
	Yield	-	700	-	-	-
	Area	-	0.05	-	-	0.01
Washim	Prodn.	-	0.04	-	-	0.02
	Yield	-	860	-	-	2000
	Area	-	-	0.002	-	-
Yavatmal	Prodn.	-	-	0.001	-	-
	Yield	-	-	500	-	-
	Nagaland					
Dimapur	Area	0.7	0.7	0.7	0.7	0.7
	Prodn.	0.4	0.4	0.4	0.5	0.5
	Yield	614	620	611	616	615
Kiphire	Area	0.03	0.04	0.04	0.04	0.04
	Prodn.	0.02	0.03	0.03	0.03	0.03
	Yield	667	750	750	750	750
Kohima	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	875	875	875	875	875
Longleng	Area	0.03	0.03	0.03	0.04	0.04
	Prodn.	0.02	0.02	0.03	0.04	0.04
	Yield	667	667	1000	1000	1000
Mokokchung	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.3	0.3	0.3	0.3	0.3
	Yield	684	641	625	610	609
Mon	Area	0.04	0.04	0.04	0.04	0.04
	Prodn.	0.03	0.04	0.04	0.04	0.04
	Yield	750	1000	1000	1000	1000
Peren	Area	0.4	0.5	0.5	0.5	0.5
	Prodn.	0.2	0.3	0.3	0.3	0.3
	Yield	545	556	609	617	617
Phek	Area	0.3	0.3	0.3	0.3	0.3
	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	633	645	625	606	608
Tuensang	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	875	875	875	875	875
Wokha	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	600	611	595	605	606
Zunheboto	Area	0.1	0.1	0.1	0.1	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	875	875	875	875	875
Punjab						
Fatehgarh Sahib	Area	-	1	2	2	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	-	2	4	4	
	Yield	-	1700	1750	2150	
	Area	-	1	-	-	
Hoshiarpur	Prodn.	-	1	-	-	
	Yield	-	1429	-	-	
	Area	-	1	0.2	-	
Jalandhar	Prodn.	-	1	0.3	-	
	Yield	-	1500	1500	-	
	Area	-	0.2	0.1	-	
Kapurthala	Prodn.	-	0.3	0.2	-	
	Yield	-	1500	2000	-	
	Area	-	1	1	1	
Ludhiana	Prodn.	-	2	3	2	
	Yield	-	1917	2083	1900	
	Area	-	0.4	0.1	-	
Nawanshar	Prodn.	-	0.5	0.2	-	
	Yield	-	1250	2000	-	
	Area	-	1	2	1	
Patiala	Prodn.	-	1	3	2	
	Yield	-	1714	2067	1800	
	Area	-	1	1	1	
S.A.S.Nagar	Prodn.	-	1	1	2	
	Yield	-	1750	1833	1700	
	Tamil Nadu					
Ariyalpur	Area	0.1	0.4	0.2	0.004	0.001
	Prodn.	0.2	0.4	0.4	0.01	0.001
	Yield	1719	830	1945	1250	1000
Coimbatore	Area	0.001	-	0.001	0.005	0.001
	Prodn.	0.001	-	0.001	0.007	0.000
	Yield	1000	-	1000	1400	0
Cuddalore	Area	0.002	0.01	0.00	0.01	0.01
	Prodn.	0.002	0.01	0.00	0.02	0.01
	Yield	1000	556	1333	1727	1000
Dharmapuri	Area	0.02	0.1	0.02	-	-
	Prodn.	0.02	0.1	0.02	-	-
	Yield	957	846	1353	-	-
Dindigal	Area	0.7	0.3	0.1	0.2	0.1
	Prodn.	0.8	0.3	0.1	0.2	0.2
	Yield	1162	860	1264	742	1347
Erode	Area	0.08	0.02	-	0.01	0.03
	Prodn.	0.09	0.02	-	0.02	0.03
	Yield	1118	1375	-	1714	1000
Kanchipuram	Area	0.01	0.01	0.01	0.001	0
	Prodn.	0.01	0.01	0.02	0.002	0
	Yield	1333	857	2000	2000	0
Karur	Area	2	0.4	0.4	0.4	0.1
	Prodn.	2	0.4	0.7	0.4	0.1

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Krishinagiri	Yield	1219	867	1703	1051	1662
	Area	0.003	-	0.001	-	-
	Prodn.	0.004	-	0.002	-	-
Madhurai	Yield	1333	-	2000	-	-
	Area	0.07	0.12	0.003	0.02	0.03
	Prodn.	0.07	0.03	0.002	0.02	0.03
Namakkal	Yield	946	229	667	1250	926
	Area	0.03	0.1	-	-	-
	Prodn.	0.04	0.1	-	-	-
Perambalur	Yield	1321	855	-	-	-
	Area	0.03	0.04	0.03	0.02	0.01
	Prodn.	0.03	0.03	0.04	0.03	0.01
Pudukkottai	Yield	1107	625	1207	1250	1000
	Area	0.02	0.02	-	0	0.001
	Prodn.	0.02	0.02	-	0	0.001
Ramanathapuram	Yield	1278	857	-	0	1000
	Area	0.1	0.3	0.5	0.2	0.2
	Prodn.	0.1	0.1	0.1	0.03	0.1
Salen	Yield	946	228	250	135	401
	Area	0.04	0.01	0.02	0.002	0.02
	Prodn.	0.04	0.004	0.02	0.001	0.02
Sivaganga	Yield	1222	667	1333	500	909
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
Thanjavur	Yield	-	-	-	-	-
	Area	0.004	0.001	-	0	0.003
	Prodn.	0.006	0.001	-	0	0.003
Theni	Yield	1500	1000	-	0	1000
	Area	0.2	0.03	0.01	0	0.005
	Prodn.	0.2	0.02	0.01	0	0.003
Tiruvallur	Yield	1413	621	2000	0	600
	Area	0.002	-	-	0.006	0.002
	Prodn.	0.002	-	-	0.003	0.002
Thiruvarur	Yield	1000	-	-	500	1000
	Area	-	-	-	0	0
	Prodn.	-	-	-	0	0
Thoothukudi	Yield	-	-	-	0	966
	Area	-	-	-	2	2
	Prodn.	-	-	-	1	1
Tiruchirapalli	Yield	-	-	-	461	632
	Area	0.2	0.6	0.1	0.1	0.02
	Prodn.	0.3	0.5	0.2	0.2	0.02
Tiruvelveli	Yield	1432	802	1875	2278	938
	Area	0.2	0.1	0.04	0.1	0.1
	Prodn.	0.4	0.1	0.03	0.2	0.1
Tiruppur	Yield	1599	797	868	1525	931
	Area	0.1	0.01	0.06	0.03	0.01

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	0.2	0.01	0.05	0.04	0.01
	Yield	1436	667	800	1265	1000
	Area	0.2	0.1	0.2	0.1	0.1
Tiruvannamalai	Prodn.	0.3	0.1	0.3	0.1	0.2
	Yield	1383	1041	1754	711	2267
	Area	2	3	3	-	-
Turicorin	Prodn.	2	0	2	-	-
	Yield	779	119	643	-	-
	Area	0.05	0.006	0.007	0.003	0.01
Vellore	Prodn.	0.06	0.003	0.013	0.003	0.01
	Yield	1075	500	1857	1000	1000
	Area	0.1	0.09	0.08	0.02	0.04
Villapuram	Prodn.	0.1	0.02	0.08	0.03	0.07
	Yield	1121	259	926	1706	1732
	Area	2	2	2	2	2
Virudhunagar	Prodn.	2	1	2	1	2
	Yield	941	287	1014	743	1078
	Telangana					
Adilabad	Area	0.13	0.04	0.02	0.02	-
	Prodn.	0.10	0.07	0.05	0.04	-
	Yield	825	1795	2125	1950	-
Bhadradri Kothagudem	Area	-	-	0.01	0.01	-
	Prodn.	-	-	0.02	0.01	-
	Yield	-	-	2143	2000	-
Jagitial	Area	-	0.02	-	-	-
	Prodn.	-	0.04	-	-	-
	Yield	-	1773	-	-	-
Jangoan	Area	-	0.01	-	-	-
	Prodn.	-	0.01	-	-	-
	Yield	-	1800	-	-	-
Jayashankar Bhupalpally	Area	-	-	0.001	-	-
	Prodn.	-	-	0.002	-	-
	Yield	-	-	2000	-	-
Jugulamba Gadwal	Area	-	0.4	0.1	-	0.03
	Prodn.	-	0.3	0.3	-	0.1
	Yield	-	822	2136	-	2214
Kamareddy	Area	-	0.1	0.2	-	0.1
	Prodn.	-	0.2	0.4	0	0.2
	Yield	-	1792	2134	0	2225
Karimnagar	Area	1	-	-	1963	0.002
	Prodn.	1	-	-	0.003	0.004
	Yield	1380	-	-	0.006	2000
Khamma	Area	0.08	0.04	0.02	2000	0.01
	Prodn.	0.10	0.07	0.04	0	0.01
	Yield	1179	1795	2111	0	2000

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Komaram Bheem	Area	-	0.05	-	-	0.001
	Prodn.	-	0.08	-	-	0.002
	Yield	-	1696	-	-	2000
Mahaboobnagar	Area	1	1	0.3	0.002	-
	Prodn.	1	1	0.6	0.004	-
	Yield	792	843	2135	2000	-
Medak	Area	5	0.4	0.2	0.1	0.1
	Prodn.	8	0.7	0.3	0.2	0.3
	Yield	1452	1794	1423	1965	2233
Medchal	Area	-	0.002	0.003	0.001	-
	Prodn.	-	0.004	0.006	0.002	-
	Yield	-	2000	2000	2000	-
Mulugu	Area	-	-	-	0.003	-
	Prodn.	-	-	-	0.006	-
	Yield	-	-	-	2000	-
Nagarkurnool	Area	-	0.174	0.005	0.002	0.011
	Prodn.	-	0.312	0.011	0.004	0.025
	Yield	-	1793	2200	2000	2273
Nalgonda	Area	0.01	0.1	0.004	-	-
	Prodn.	0.01	0.2	0.01	-	-
	Yield	1167	1795	2250	-	-
Narayanapet	Area	-	-	-	0.1	0.02
	Prodn.	-	-	-	0.2	0.05
	Yield	-	-	-	1959	2250
Nirmal	Area	-	0.02	-	-	-
	Prodn.	-	0.03	-	-	-
	Yield	-	1813	-	-	-
Nizamabad	Area	4	0.4	0.1	1	3
	Prodn.	4	0.5	0.1	2	7
	Yield	875	1251	1098	1960	2231
Rajanna Sircilla	Area	-	0.01	0.01	0.01	0.002
	Prodn.	-	0.01	0.01	0.01	0.004
	Yield	-	1800	2200	2000	2000
Rangareddy	Area	0.1	0.2	0.2	0.1	0.01
	Prodn.	0.2	0.4	0.4	0.1	0.03
	Yield	1172	1795	2136	1958	2250
Sangareddy	Area	-	0.07	0.01	-	0.02
	Prodn.	-	0.1	0.02	-	0.05
	Yield	-	1769	2125	-	2238
Siddipet	Area	-	3	3	1	1
	Prodn.	-	6	6	2	2
	Yield	-	1860	2210	1960	2231
Vikarabad	Area	-	0.00	0.03	0.01	0.01
	Prodn.	-	0.01	0.07	0.02	0.02
	Yield	-	1750	2125	2000	2222
Wanaparthy	Area	-	0.003	-	-	0.001

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Warangal	Prodn.	-	0.005	-	-	0.002
	Yield	-	1667	-	-	2000
	Area	0.01	0.002	0.003	0.001	-
	Prodn.	0.02	0.004	0.006	0.002	-
	Yield	1143	2000	2000	2000	-
Uttar Pradesh						
Aligarh	Area	-	0.001	0.1	0.1	0.03
	Prodn.	-	0.001	0.1	0.1	0.04
	Yield	-	1000	1440	1360	1400
Ambedkar Nagar	Area	0.01	-	-	-	-
	Prodn.	0.01	-	-	-	-
	Yield	1625	-	-	-	-
Amethi	Area	0.02	0.2	0.1	0.1	0.2
	Prodn.	0.02	0.2	0.2	0.2	0.2
	Yield	1600	1176	1443	1366	1381
Auriaya	Area	-	-	0.001	-	-
	Prodn.	-	-	0.002	-	-
	Yield	-	-	2000	-	-
Azamgarh	Area	0.019	0.004	0.003	0.003	0.003
	Prodn.	0.031	0.005	0.004	0.004	0.004
	Yield	1632	1250	1333	1333	1333
Baghpat	-	-	-	-	-	0.001
	-	-	-	-	-	0.001
	-	-	-	-	-	1000
Bahraich	Area	0.02	0.02	-	-	0.02
	Prodn.	0.03	0.02	-	-	0.02
	Yield	1619	1176	-	-	1353
Ballia	Area	0.07	0.05	-	0.03	0.01
	Prodn.	0.12	0.06	-	0.03	0.01
	Yield	1603	1167	-	1360	1429
Balrampur	Area	0.02	0.03	-	-	0.03
	Prodn.	0.03	0.04	-	-	0.04
	Yield	1579	1161	-	-	1387
Banda	Area	-	-	-	-	0.002
	Prodn.	-	-	-	-	0.003
	Yield	-	-	-	-	1500
Barabanki	Area	0.004	0.009	-	0.006	-
	Prodn.	0.006	0.011	-	0.008	-
	Yield	1500	1222	-	1333	-
Bareilly	Area	0.01	0.02	0.02	-	0.001
	Prodn.	0.02	0.02	0.03	-	0.001
	Yield	1583	1167	1471	-	1000
Basri	Area	0.03	-	-	-	-
	Prodn.	0.04	-	-	-	-
	Yield	1615	-	-	-	-
Budaun	Area	0.004	0.04	0.04	0.04	-
	Prodn.	0.01	0.05	0.06	0.05	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	1500	1184	1447	1368	-
	Area	-	-	-	0.003	0.002
	Prodn.	-	-	-	0.004	0.003
Bulandshahr	Yield	-	-	-	1333	1500
	Area	0.02	0.00	0.01	0.01	0.01
	Prodn.	0.04	0.01	0.01	0.01	0.02
Etawah	Yield	1583	1250	1444	1333	1385
	Area	0.04	-	-	-	-
	Prodn.	0.07	-	-	-	-
Faizabad	Yield	1605	-	-	-	-
	Area	-	0.04	0.1	0.1	0.1
	Prodn.	-	0.05	0.2	0.1	0.1
Farrukhabad	Yield	-	1171	1439	1361	1388
	Area	-	0.002	0.002	-	0.003
	Prodn.	-	0.002	0.003	-	0.004
Fatehpur	Yield	-	1000	1500	-	1333
	Area	0.3	0.3	0.3	-	-
	Prodn.	0.5	0.3	0.4	-	-
Firozabad	Yield	1606	1178	1442	-	-
	Area	0.02	0.01	0.03	0.02	0.04
	Prodn.	0.04	0.02	0.04	0.02	0.06
Ghazipur	Yield	1609	1214	1444	1375	1375
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
Gonda	Yield	-	-	-	-	-
	Area	0.3	0.1	-	-	0.1
	Prodn.	0.4	0.1	-	-	0.1
Gorakhpur	Yield	1609	1182	-	-	1379
	Area	0.001	0.002	-	-	0.002
	Prodn.	0.002	0.002	-	-	0.003
Hamirpur	Yield	2000	1000	-	-	1500
	Area	0.1	0.9	0.5	0.5	0.4
	Prodn.	0.1	1.1	0.7	0.7	0.6
Hordoi	Yield	1618	1173	1446	1366	1382
	Area	-	0.01	-	-	0.01
	Prodn.	-	0.01	-	-	0.01
Hathras	Yield	-	1222	-	-	1333
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
Jalaun	Yield	-	-	-	-	-
	Area	0.02	0.07	0.01	0.01	0.02
	Prodn.	0.04	0.08	0.01	0.01	0.02
Jaunpur	Yield	1591	1171	1400	1429	1375
	Area	0.1	0.1	-	-	0.1
	Prodn.	0.1	0.1	-	-	0.1
Jhansi	Yield	1608	1172	-	-	1381
	Area	0.4	1	1	-	2
	Prodn.	-	-	-	-	-
Kannauj	Area	0.4	1	1	-	2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	0.7	1	1	-	3
	Yield	1609	1177	1442	-	1382
	Area	0.02	0.03	0.02	-	-
Kanpur Dehat	Prodn.	0.04	0.03	0.03	-	-
	Yield	1609	1179	1455	-	-
	Area	0.1	0.1	-	0.1	-
Kanpur Nagar	Prodn.	0.2	0.1	-	0.2	-
	Yield	1610	1172	-	1367	-
	Area	-	-	0.007	-	0.009
Kasganj (Kanshi Ram Nagar)	Prodn.	-	-	0.010	-	0.012
	Yield	-	-	1429	-	1333
	Area	0.001	0.01	-	0.01	-
Kaushambi	Prodn.	0.002	0.01	-	0.01	-
	Yield	2000	1200	-	1333	-
	Area	0.004	-	-	-	-
Kheri	Prodn.	0.006	-	-	-	-
	Yield	1500	-	-	-	-
	Area	-	0.002	-	-	0.002
Krushi Nagar	Prodn.	-	0.002	-	-	0.003
	Yield	-	1000	-	-	1500
	Area	0.12	0.05	0.003	-	-
Lalitpur	Prodn.	0.19	0.06	0.004	-	-
	Yield	1612	1184	1333	-	-
	Area	0.001	-	-	-	-
Lucknow	Prodn.	0.002	-	-	-	-
	Yield	2000	-	-	-	-
	Area	0.03	0.01	-	-	0.01
Maharajganj	Prodn.	0.05	0.01	-	-	0.02
	Yield	1600	1182	-	-	1364
	Area	0.01	0.01	-	-	0
Mahoba	Prodn.	0.02	0.01	-	-	0
	Yield	1600	1222	-	-	1400
	Area	0.33	0.01	0.01	0.05	0.01
Mainpuri	Prodn.	0.52	0.01	0.02	0.07	0.01
	Yield	1607	1167	1417	1358	1429
	Area	0.01	0.01	0.01	0.01	0.01
Mau	Prodn.	0.02	0.01	0.02	0.02	0.02
	Yield	1583	1200	1429	1364	1357
	Area	0.03	0.001	-	-	0.001
Mirzapur	Prodn.	0.05	0.001	-	-	0.001
	Yield	1606	1000	-	-	1000
	Area	0.01	0.04	-	0.01	-
Pilibhit	Prodn.	0.01	0.04	-	0.01	-
	Yield	1667	1171	-	1333	-
	Area	-	0.002	-	-	0.002
Rae Bareli	Prodn.	-	0.002	-	-	0.003
	Yield	-	1000	-	-	1500

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Rampur	Area	0.01	0.01	0.01	0.01	0.01
	Prodn.	0.01	0.01	0.02	0.01	0.01
	Yield	1375	1375	1286	1400	1400
Sambhal (Bheem Nagar)	Area	-	0.01	-	-	-
	Prodn.	-	0.02	-	-	-
	Yield	-	1385	-	-	-
Sant Kabir Nagar	Area	0.001	-	-	-	-
	Prodn.	0.001	-	-	-	-
	Yield	1000	-	-	-	-
Sant Ravidas Nagar	Area	-	0.01	-	0.01	-
	Prodn.	-	0.01	-	0.02	-
	Yield	-	1167	-	1333	-
Shahjahanpur	Area	0.01	-	-	0.02	-
	Prodn.	0.02	-	-	0.03	-
	Yield	1667	-	-	1364	-
Shamli	Area	0.001	-	-	-	-
	Prodn.	0.002	-	-	-	-
	Yield	2000	-	-	-	-
Sitapur	Area	-	0.001	-	-	0.001
	Prodn.	-	0.001	-	-	0.001
	Yield	-	1000	-	-	1000
Sultanpur	Area	0.00	0.02	0.03	0.02	0.03
	Prodn.	0.01	0.03	0.04	0.03	0.04
	Yield	1750	1167	1444	1381	1379
Unnao	Area	0.04	0.1	-	0.0	0.1
	Prodn.	0.1	0.1	-	0.1	0.2
	Yield	1634	1176	-	1364	1382
Uttarakhand						
Almora	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
Dehradun	Area	0.003	-	-	0.01	-
	Prodn.	0.003	-	-	0.003	-
	Yield	1000	-	-	600	-
Haridwar	-	-	-	-	0.002	-
	-	-	-	-	0.002	-
	-	-	-	-	1000	-
Nainital	Area	0.03	-	-	-	-
	Prodn.	0.03	-	-	-	-
	Yield	967	-	-	-	-
Pauri Garhwal	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
Pithoragarh	Area	-	0.007	-	-	-
	Prodn.	-	0.004	-	-	-
	Yield	-	571	-	-	-
Udam Singh Nagar	Area	0.05	-	-	0.001	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Uttar Kashi	Prodn.	0.05	-	-	0.001	
	Yield	957	-	-	1000	
	Area	0.02	-	-	-	
	Prodn.	0.02	-	-	-	
	Yield	909	-	-	-	
West Bengal						
24 Paraganas North	Area	0.4	0.3	0.2	0.3	
	Prodn.	0.5	0.4	0.3	0.4	
	Yield	1169	1339	1518	1389	
24 Paraganas Sough	Area	5	5	5	6	
	Prodn.	6	6	6	6	
	Yield	1235	1232	1170	870	
Alipurduar	-	-	-	-	0.001	
	-	-	-	-	0.001	
	-	-	-	-	1000	
Bankura	Area	1	1	1	1	
	Prodn.	1	1	1	1	
	Yield	1609	1616	1101	1150	
Birbhum	Area	0.07	0.07	0.03	0.05	
	Prodn.	0.06	0.07	0.05	0.04	
	Yield	955	957	1394	867	
Coochbehar	-	-	-	-	0.1	
	-	-	-	-	0.1	
	-	-	-	-	1202	
Darjeeling	Area	0.01	0.01	0.01	-	
	Prodn.	0.01	0.01	0.01	-	
	Yield	1286	1500	1571	-	
Dinajpur Dakshin	Area	0.02	0.02	0.02	-	
	Prodn.	0.02	0.02	0.02	-	
	Yield	1000	1000	800	-	
dinajpur Uttar	Area	0.02	0.02	0.04	0.04	
	Prodn.	0.03	0.03	0.03	0.02	
	Yield	1136	1167	690	686	
Hooghly	Area	0.04	0.04	0.01	0.01	
	Prodn.	0.06	0.06	0.02	0.01	
	Yield	1658	1641	1700	1333	
Howrah	Area	0.18	0.18	0.10	0.04	
	Prodn.	0.20	0.21	0.15	0.03	
	Yield	1128	1133	1413	773	
Jalpaiguri	Area	0.1	0.1	0.1	0.1	
	Prodn.	0.1	0.1	0.1	0.1	
	Yield	1287	1286	1127	1113	
Jhargram	Area	-	-	0.2	0.2	
	Prodn.	-	-	0.4	0.3	
	Yield	-	-	1471	1592	
Kalimpong	Area	-	-	0.003	-	
	Prodn.	-	-	0.003	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	-	1000	-	-
Medinipur East	Area	0.4	0.4	0.6	0.02	-
	Prodn.	0.6	0.6	1.0	0.05	-
	Yield	1780	1784	1661	2500	-
Medinipur West	Area	0.4	0.4	0.6	0.01	-
	Prodn.	0.6	0.6	1.0	0.01	-
	Yield	1780	1784	1661	1167	-
Murshidabad	Area	0.1	0.1	0.04	-	-
	Prodn.	0.1	0.1	0.04	-	-
	Yield	1077	1086	951	-	-
Nadia	Area	0.01	0.01	0.01	0.2	-
	Prodn.	0.02	0.02	0.02	0.3	-
	Yield	1500	1545	1900	1404	-
Purba Bardhaman	Area	0.1	0.1	0.1	-	-
	Prodn.	0.1	0.1	0.1	-	-
	Yield	1430	1440	1405	-	-
Purulia	Area	0.05	0.05	0.01	-	-
	Prodn.	0.05	0.05	0.01	-	-
	Yield	938	900	909	-	-

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, in. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

7. Linseed

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7.1 World Area, Production and Yield of Linseed

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Production	Yield
2015	2987	3150	1054
2016	2766	2911	1053
2017	2922	2872	983
2018	3149	2975	945
2019	3224	3068	952

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

7.2 Area, Production and Yield of Linseed in Major countries of the World

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Afghanistan	Area	4	1	28	34	38
	Prodn.	3	0.2	20	26	55
	Yield	674	380	701	761	1435
Argentina	Area	17	13	12	14	9
	Prodn.	20	17	14	20	10
	Yield	1182	1278	1095	1370	1100
Australia	Area	6	6	7	7	7
	Prodn.	6	6	6	6	6
	Yield	1000	1000	857	857	857
Austria	Area	1	1	2	1	1
	Prodn.	1	2	2	1	2
	Yield	1146	1345	1088	1080	1204
Bangladesh	Area	7	7	5	6	5
	Prodn.	5	4	4	4	4
	Yield	694	682	776	793	689
Belarus	Area	20	22	18	22	24
	Prodn.	7	7	7	7	9
	Yield	337	295	410	321	383
Belgium	Area	12	14	15	--	--
	Prodn.	8	9	11	--	--
	Yield	667	643	733	--	--
Brazil	Area	15	12	8	6	4
	Prodn.	12	13	6	6	4
	Yield	836	1113	791	987	953
Canada	Area	627	342	419	342	339
	Prodn.	943	541	555	492	486
	Yield	1504	1585	1325	1441	1433
Chile	Area	3	3	3	4	4
	Prodn.	1	1	1	1	1
	Yield	492	445	407	368	330
China	Area	292	287	284	279	260
	Prodn.	400	368	363	366	340
	Yield	1367	1282	1278	1312	1308
Czechia	Area	2	1	2	1	1

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	2	2	2	2	1
	Yield	1330	1511	1364	1389	1250
	Area	1	1	1	--	--
Denmark	Prodn.	0.1	0.2	0.2	--	--
	Yield	214	221	219	--	--
	Area	3	5	6	6	7
Egypt	Prodn.	5	8	8	7	10
	Yield	1594	1547	1404	1219	1429
	Area	1	1	1	1	1
Eritrea	Prodn.	0.2	0.2	0.2	0.2	0.2
	Yield	322	316	321	324	326
	Area	85	80	79	84	69
Ethiopia	Prodn.	98	88	88	97	80
	Yield	1143	1094	1116	1156	1153
	Area	--	--	--	1	1
Finland	Prodn.	--	--	--	1	0
	Yield	--	--	--	625	800
	Area	22	25	29	25	22
France	Prodn.	43	43	55	46	46
	Yield	1909	1730	1880	1851	2083
	Area	5	4	5	4	3
Germany	Prodn.	7	6	7	0	0
	Yield	1400	1429	1522	0	0
	Area	1	1	1	1	1
Hungary	Prodn.	1	1	2	1	1
	Yield	1150	1453	1358	1239	1383
	Area	285	298	325	326	173
India	Prodn.	155	125	184	174	99
	Yield	544	420	567	533	574
	Area	0.3	0.3	0.3	0.3	0.3
Iraq	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	424	402	392	384	380
	Area	3	3	3	--	--
Italy	Prodn.	2	2	2	--	--
	Yield	667	667	667	--	--
	Area	623	634	859	1077	1245
Kazakhstan	Prodn.	491	562	683	934	1007
	Yield	789	887	796	867	809
	Area	1	1	1	1	1
Kenya	Prodn.	1	1	1	1	1
	Yield	1002	1003	1004	1005	1005
	Area	0.3	0.1	0.3	0.1	0.1
Latvia	Prodn.	0.3	0.2	0.3	0.1	0.1
	Yield	1000	2000	1000	1000	1000
	Area	0.4	0.2	0.4	0.5	0.4
Lithuania	Prodn.	0.3	0.2	0.7	0.6	0.3
	Yield	866	916	1847	1208	750

Country	Unit	2015	2016	2017	2018	2019
Mexico	Area	--	--	--	--	--
	Prodn.	--	--	--	--	--
	Yield	--	--	--	--	--
Nepal	Area	17	14	16	15	12
	Prodn.	10	8	10	15	12
	Yield	616	534	633	988	1026
Netherlands	Area	2	2	2	--	--
	Prodn.	2	2	2	--	--
	Yield	1000	740	600	--	--
New Zealand	Area	2	2	2	2	2
	Prodn.	2	2	2	2	3
	Yield	1359	1356	1344	1332	1319
Pakistan	Area	3	3	3	3	3
	Prodn.	2	2	2	2	2
	Yield	706	718	721	728	726
Peru	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	896	831	865	986	932
Poland	Area	5	7	6	5	4
	Prodn.	6	8	9	7	5
	Yield	1355	1136	1549	1349	1300
Romania	Area	2	2	2	2	3
	Prodn.	4	3	4	3	6
	Yield	1671	1659	1676	1539	2013
Russian Federation	Area	636	710	580	730	811
	Prodn.	524	673	611	558	659
	Yield	823	948	1054	764	812
Slovakia	Area	1	2	2	1	1
	Prodn.	2	2	2	1	1
	Yield	1187	1251	970	1131	976
Sweden	Area	7	8	5	4	2
	Prodn.	14	17	8	4	4
	Yield	2000	2007	1718	1111	1964
Switzerland	Area	0.1	0.1	0.2	0.2	0.2
	Prodn.	0.3	0.3	0.4	0.3	0.3
	Yield	2455	2119	2525	1954	2134
Tunisia	Area	1	1	1	1	1
	Prodn.	3	3	3	3	3
	Yield	2839	2919	2991	3062	3135
Ukraine	Area	67	69	48	32	17
	Prodn.	76	92	46	24	15
	Yield	1145	1342	971	754	911
United Kingdom of Great Britain and Northern Ireland	Area	15	27	26	25	15
	Prodn.	29	48	46	43	27
	Yield	1933	1778	1769	1720	1800
United States of America	Area	185	148	110	80	129
	Prodn.	256	236	98	113	162

Country	Unit	2015	2016	2017	2018	2019
Uruguay	Yield	1390	1591	887	1416	1258
	Area	4	3	3	2	2
	Prodn.	5	4	3	3	2
Uzbekistan	Yield	1200	1249	1240	1245	1250
	Area	3	3	3	3	3
	Prodn.	1	1	1	1	1
Africa	Yield	333	333	333	333	333
	Area	91	88	88	92	79
	Prodn.	107	100	101	108	94
Americas	Yield	1170	1136	1153	1176	1195
	Area	851	522	557	450	489
	Prodn.	1239	813	678	637	667
Asia	Yield	1456	1558	1218	1416	1364
	Area	1234	1247	1524	1744	1740
	Prodn.	1067	1071	1268	1523	1521
Europe	Yield	865	859	832	873	874
	Area	803	901	746	855	907
	Prodn.	729	919	817	699	778
Oceania	Yield	907	1020	1095	818	857
	Area	8	8	9	9	9
	Prodn.	8	8	8	8	9
World	Yield	1080	1080	957	957	956
	Area	2987	2766	2922	3149	3224
	Prodn.	3150	2911	2872	2975	3068
	Yield	1054	1053	983	945	952

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

7.3 All India Area, Production and Yield of Linseed

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Linseed over Total Area under Oilseeds
2015-16	263	126	477	1
2016-17	325	184	567	1
2017-18	326	174	533	1
2018-19	173	99	574	
2019-20	180	121	671	

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

7.4 State-wise Area, Production and Yield of Linseed

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	--	--	--	--	--

State		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	--	--	--	--	--
	Yield	--	--	--	--	--
	Area	--	0.04	0.04	--	0.04
Arunachal Pradesh	Prod.	--	0.1	0.1	--	0.1
	Yield	--	1500	1465	--	2273
Assam	Area	5	5	5	5	5
	Prod.	3	3	3	3	3
	Yield	633	608	613	608	614
Bihar	Area	15	13	12	10	8
	Prod.	13	11	10	8	7
	Yield	859	833	851	849	845
Chhattisgarh	Area	27	30	26	18	16
	Prod.	8	10	6	5	4
	Yield	292	344	248	260	284
Himachal Pradesh	Area	0.8	1.0	0.8	0.8	0.8
	Prod.	0.2	0.3	0.2	0.2	0.3
	Yield	295	295	299	300	420
Jammu & Kashmir	Area	0.2	0.1	0.1	0.2	0.1
	Prod.	0.1	0.1	0.03	0.2	0
	Yield	878	369	484	1111	0
Jharkhand	Area	26	39	52	40	40
	Prod.	14	24	30	20	23
	Yield	534	612	570	491	584
Karnataka	Area	5	3	2	2	1
	Prod.	2	1	1	0	1
	Yield	293	333	363	217	513
Kerala	Area	--	4	--	--	--
	Prod.	--	0	--	--	--
	Yield	--	0	--	--	--
Madhya Pradesh	Area	116	121	162	38	52
	Prod.	55	61	86	27	45
	Yield	474	504	531	712	867
Maharashtra	Area	16	14	11	7	5
	Prod.	4	3	3	3	2
	Yield	250	239	293	380	353
Meghalaya	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	582	556	591	596	600
Nagaland	Area	6	6	6	6	6
	Prod.	5	5	5	5	5
	Yield	808	811	813	814	814
Odisha	Area	21	16	12	12	10
	Prod.	10	8	6	6	5
	Yield	477	480	485	483	496
Rajasthan	Area	2	35	5	3	5
	Prod.	2	39	5	3	5
	Yield	1013	1114	1012	1009	964

State		2015-16	2016-17	2017-18	2018-19	2019-20
Tripura	Area	--	0.2	0.1	0.1	0
	Prod.	--	0.1	0.1	0.04	0
	Yield	--	700	700	774	0
Uttar Pradesh	Area	17	32	26	28	27
	Prod.	8	17	16	18	19
	Yield	460	531	602	631	688
West Bengal	Area	6	7	6	4	4
	Prod.	2	2	3	2	2
	Yield	388	370	417	446	517
Others	Area	--	--	--	--	--
	Prod.	--	--	--	--	--
	Yield	--	--	--	--	--
India	Area	263	325	326	173	180
	Prod.	126	184	174	99	121
	Yield	477	567	533	574	671

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

7.5 District-wise Area, Production and Yield of Linseed in India

(Area in '000 ha; Production in '000 MT, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh						
Ananthapur	Area	0.001	-	-	-	-
	Prod.	0.001	-	-	-	-
	Yield	1000	-	-	-	-
Chittoor	Area	0.01	-	0.01	0.01	
	Prod.	0.004	-	0.004	0	
	Yield	444	-	500	0	
Kadapa	Area	0.25	0.22	0.22	0.14	
	Prod.	0.12	0.11	0.10	0	
	Yield	482	484	481	0	
Assam						
Baksa	Area	0.37	0.37	0.36	0.35	
	Prod.	0.28	0.24	0.27	0.27	
	Yield	765	651	756	760	
Barpeta	Area	2	2	2	2	
	Prod.	1.11	0.95	0.97	0.94	
	Yield	680	593	627	619	
Bongaigaon	Area	0.2	0.2	0.24	0.228	
	Prod.	0.1	0.1	0.09	0.08	
	Yield	589	627	360	360	
Cachar	Area	0.03	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	400	435	381	435	
Chirang	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.2	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	665	667	669	654	
Darrang	Area	0.44	0.38	0.41	0.35	
	Prod.	0.29	0.23	0.30	0.25	
	Yield	652	604	730	734	
Dhemaji	Area	0.01	0.01	0.01	0.05	
	Prod.	0.01	0.01	0.01	0.04	
	Yield	778	778	727	766	
Dhubri	Area	0.3	0.2	0.2	0.2	
	Prod.	0.2	0.1	0.2	0.1	
	Yield	515	623	619	583	
Goalpara	Area	0.3	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	549	550	600	600	
Hailakandi	Area	0.004	0.01	0.004	0.01	
	Prod.	0.002	0.003	0.002	0.003	
	Yield	500	600	500	600	
Jorhat	Area	0.002	0.004	0.003	0.002	
	Prod.	0.002	0.003	0.002	0.002	
	Yield	1000	750	667	1000	
Kamrup	Area	0.14	0.13	0.13	0.12	
	Prod.	0.08	0.07	0.06	0.06	
	Yield	528	519	512	521	
Kamrup Metro	Area	0.02	0.004	0.004	0.006	
	Prod.	0.01	0.002	0.002	0.003	
	Yield	571	500	500	500	
Karbi Anglong	Area	0.07	0.07	0.06	0.07	
	Prod.	0.03	0.03	0.03	0.03	
	Yield	414	417	422	455	
Karimganj	Area	0.03	0.03	0.03	0.03	
	Prod.	0.02	0.02	0.00	0.01	
	Yield	556	556	111	500.00	
Kokrajhar	Area	0.5	0.4	0.4	0.3	
	Prod.	0.3	0.2	0.2	0.2	
	Yield	570	585	585	571	
Lakhimpur	Area	0.02	-	0.02	0.01	
	Prod.	0.004	-	0.01	0.01	
	Yield	267	-	600	700	
Marigaon	Area	0.19	0.16	0.19	0.20	
	Prod.	0.09	0.08	0.09	0.09	
	Yield	484	476	481	480.00	
Nagaon	Area	0.4	0.3	0.4	0.2	
	Prod.	0.3	0.2	0.2	0.1	
	Yield	886	779	599	468	
Nalbari	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	576	680	720	681	
Sonitpur	Area	0.1	0.1	0.1	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	0.1	0.1	0.1	0.1	
	Yield	613	645	458	624	
	Area	0.005	-	0.002	0.002	
Tinsukia	Prod.	0.002	-	0.001	0.001	
	Yield	400	-	500	500	
	Area	0.3	0.5	0.3	0.4	
Udalguri	Prod.	0.1	0.3	0.2	0.2	
	Yield	433	611	650	660	
	Bihar					
Araria	Area	-	0.05	-	-	0.03
	Prod.	-	0.04	-	-	0.04
	Yield	-	826	-	-	1233
Arwal	Area	0.4	0.4	0.3	0.1	-
	Prod.	0.32	0.31	0.28	0.07	-
	Yield	851	833	847	847	-
Aurangabad	Area	3	3	2	2.01	-
	Prod.	3	2	2.05	2	-
	Yield	850	833	848	844	-
Banka	Area	0.16	0.16	0.16	0.21	-
	Prod.	0.14	0.13	0.14	0.18	-
	Yield	861	830.00	851	848	-
Begusarai	Area	0.002	0.002	-	0.01	0.15
	Prod.	0.002	0.002	-	0.03	0.23
	Yield	1000	1000	-	2385	1487
Bhagalpur	Area	0.45	0.56	0.85	0.85	0.16
	Prod.	0.39	0.47	0.72	0.72	0.24
	Yield	859	833	851	848	1469
Bhojpur	Area	0.24	0.16	0.19	0.23	-
	Prod.	0.21	0.13	0.16	0.19	-
	Yield	859	832	858	849	-
Buxar	Area	0.42	0.29	0.16	0.16	-
	Prod.	0.36	0.24	0.14	0.14	-
	Yield	858	832	859	851	-
Darbhanga	Area	0.02	0.03	0.03	0.03	0.01
	Prod.	0.02	0.02	0.02	0.02	0.02
	Yield	857	880	840	840	1429
Gaya	Area	0.87	0.94	0.88	-	-
	Prod.	0.74	0.78	0.75	-	-
	Yield	850	834	849	-	-
Jamui	Area	0.10	-	-	-	-
	Prod.	0.09	-	-	-	-
	Yield	920	-	-	-	-
Jehanabad	Area	0.11	0.11	0.10	0.10	0.00
	Prod.	0.09	0.09	0.09	0.08	0.00
	Yield	850	832	850	847	1333
Kaimur (Bhabua)	Area	1	1	1	1	-
	Prod.	1	1	1.07	1	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Katiyar	Yield	859	833	860	851	-
	Area	0.49	0.16	0.49	0.24	-
	Prod.	0.42	0.13	0.42	0.20	-
Khagaria	Yield	860	832	850	847	-
	Area	0.02	0.04	0.02	0.02	0.64
	Prod.	0.02	0.03	0.01	0.01	0.95
Kishanganj	Yield	905	771	824	867	1495
	Area	2	2	2	2	-
	Prod.	2	2	2	2	-
Lakshisaarai	Yield	859	833	851	848	-
	Area	0.27	0.22	0.22	-	-
	Prod.	0.25	0.17	0.19	-	-
Madhepura	Yield	922	777	849	-	-
	Area	0.08	0.08	0.10	0.05	2.10
	Prod.	0.07	0.07	0.09	0.04	3
Madhubani	Yield	855	838	854	846	1411
	Area	0.33	0.08	0.33	0.09	0.00
	Prod.	0.29	0.07	0.28	0.08	0.00
Munger	Yield	859	866	850	852	1000
	Area	0.13	0.14	0.13	0.13	-
	Prod.	0.12	0.11	0.11	0.11	-
Muzaffarpur	Yield	921	775	850.00	852	-
	Area	0.06	0.05	0.05	0.03	0.00
	Prod.	0.05	0.05	0.04	0.03	0.00
Nalanda	Yield	857	870	844	875	1000
	Area	0.08	0.08	0.07	0.10	0.11
	Prod.	0.07	0.06	0.05	0.08	0.15
Nawada	Yield	854	829	706.00	847	1452.83
	Area	0.14	0.38	0.13	0.13	0.04
	Prod.	0.12	0.32	0.11	0.11	0.05
Pashchim Champaran	Yield	853	834	849	847	1459
	Area	1	0.26	0.24	0.22	0.01
	Prod.	1	0.23	0.20	0.19	0.01
Patna	Yield	860	875	846	862	1429
	Area	0.26	0.25	0.11	0.04	0.02
	Prod.	0.23	0.21	0.10	0.04	0.03
Purbi Champaran	Yield	859	833	858	841	1471
	Area	0.11	0.08	0.03	0.03	0.01
	Prod.	0.09	0.07	0.03	0.03	0.01
Purnia	Yield	857	878	844	867	1300
	Area	0.45	0.24	0.37	0.03	0.02
	Prod.	0.38	0.20	0.31	0.02	0.02
Rohtas	Yield	858	831	851	840	1467
	Area	0.49	0.61	0.61	0.61	0.00
	Prod.	0.42	0.51	0.52	0.52	0.00
Saharsa	Yield	860	832	860	851	1500
	Area	0.20	0.20	0.20	0.20	0.13

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	0.17	0.17	0.17	0.17	0.18
	Yield	857	833	852	848	1430
	Area	0.23	0.10	0.10	0.10	-
Samastipur	Prod.	0.20	0.09	0.09	0.08	-
	Yield	860	864	851	854	-
	Area	-	-	-	-	-
Saran	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	0.17	0.24	0.02	-	-
Sheikhpura	Prod.	0.15	0.18	0.02	-	-
	Yield	922	774	857	-	-
	Area	0.07	0.13	0.12	0.13	0.01
Sheohar	Prod.	0.06	0.11	0.10	0.11	0.01
	Yield	870	873	852	867	1286
	Area	0.09	0.09	0.09	0.09	-
Sitamarhi	Prod.	0.07	0.07	0.07	0.08	-
	Yield	859	871	849	862	-
	Area	0.03	0.03	0.03	0.03	-
Siwan	Prod.	0.02	0.02	0.03	0.03	-
	Yield	846	815	862	862	-
	Area	0.61	0.66	0.44	0.42	5
Supaul	Prod.	0.52	0.55	0.37	0.36	7
	Yield	856	833	852	846	1412
	Area	0.03	0.02	0.03	0.03	-
Vaishali	Prod.	0.03	0.02	0.02	0.02	-
	Yield	839	864	857	857	-
	Chhattisgarh					
Balod	Area	2	-	1	0.79	
	Prod.	0.81	-	0.30	0.21	
	Yield	346	-	248	269	
Baloda Bazar	Area	0.13	-	-	0.00	
	Prod.	0.06	-	-	0.00	
	Yield	445	-	-	250	
Balrampur	Area	4.06	-	4.01	4.03	
	Prod.	2	-	1.10	1	
	Yield	443	-	275	282	
Bastar	Area	0.03	-	0.01	0.02	
	Prod.	0.01	-	0.002	0.01	
	Yield	452	-	286	278	
Bemetara	Area	0.45	-	0.02	0.05	
	Prod.	0.17	-	0.01	0.01	
	Yield	381	-	208.00	250.00	
Bilaspur	Area	1	-	0.77	0.46	
	Prod.	0.51	-	0.18	0.13	
	Yield	392	-	235	275	
Dantewada	Area	-	-	-	0.00	
	Prod.	-	-	-	0.00	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	-	-	-	0.00	
Dhamtari	Area	0.62	-	0.17	0.07	
	Prod.	0.26	-	0.04	0.02	
	Yield	428	-	253	273	
Durg	Area	0.41	-	0.11	0.05	
	Prod.	0.15	-	0.02	0.01	
	Yield	365	-	188	196	
Gariyaband	Area	0.18	-	0.10	0.03	
	Prod.	0.08	-	0.02	0.01	
	Yield	418	-	231	269	
Janjgir-Champa	Area	1	-	0.39	0.04	
	Prod.	0.57	-	0.11	0.01	
	Yield	484	-	271	318	
Jashpur	Area	1.00	-	0.70	0.64	
	Prod.	0.36	-	0.17	0.17	
	Yield	357	-	238	266	
Kabirdham	Area	0.31	-	0.13	0.04	
	Prod.	0.10	-	0.03	0.01	
	Yield	333	-	224	154	
Kanker	Area	0.69	-	0.31	0.14	
	Prod.	0.26	-	0.08	0.04	
	Yield	375	-	247	301	
Kondagaon	Area	0.15	-	0.08	0.12	
	Prod.	0.08	-	0.02	0.04	
	Yield	517	-	300	347	
Korba	Area	1.31	-	0.29	0.19	
	Prod.	0.35	-	0.06	0.04	
	Yield	268	-	216	211	
Korea	Area	1	-	1	0.87	
	Prod.	0.34	-	0.23	0.16	
	Yield	296	-	196	181	
Mahasamund	Area	0.01	-	-	0.00	
	Prod.	0.00	-	-	0.00	
	Yield	375	-	-	250	
Mungeli	Area	0.28	-	0.14	0.03	
	Prod.	0.14	-	0.03	0.01	
	Yield	484	-	222	258	
Narayanpur	Area	-	-	-	0.001	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	1000	
Raigarh	Area	0.29	-	0.27	0.21	
	Prod.	0.14	-	0.07	0.06	
	Yield	462	-	264	277	
Raipur	Area	0.06	-	0.07	0.04	
	Prod.	0.03	-	0.02	0.01	
	Yield	410	-	247	263	
Rajnandgaon	Area	4	-	3	4	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Surajpur	Prod.	1	-	0.82	1.00	
	Yield	303	-	258	283	
	Area	2	-	2	1	
	Prod.	0.96	-	0.58	0.42	
	Yield	402	-	324	300	
	Area	3	-	3	3	
Surguja	Prod.	1	-	0.68	0.85	
	Yield	385	-	243	258	
	Area	-	-	-	-	
Himachal Pradesh						
Hamirpur	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Kangra	Area	0.59	0.32	0.59	0.56	
	Prod.	0.18	0.11	0.18	0.17	
	Yield	296	347	301.00	311	
Mandi	Area	0.21	0.10	0.21	0.25	
	Prod.	0.06	0.00	0.06	0.07	
	Yield	282	40	292	276	
Una	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Jammu & Kashmir						
Badgam	Area	-	-	-	-	0.02
	Prod.	-	-	-	-	0.02
	Yield	-	-	-	-	1125
Doda	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Jammu	Area	0.08	0.08	0.001	0.08	
	Prod.	0.02	0.02	0.001	0.09	
	Yield	288	250	1000	1113	
Kathua	Area	0.02	-	0.00	0.01	
	Prod.	0.01	-	0.00	0.02	
	Yield	292	-	500	1143	
Leh Ladakh	Area	0.004	-	-	-	
	Prod.	0.01	-	-	-	
	Yield	1500	-	-	-	
Pulwama	Area	0.06	0.02	0.06	0.04	
	Prod.	0.004	0.02	0.03	0.05	
	Yield	68	1056.00	508.00	1122	
Rajauri	Area	0.002	-	-	-	
	Prod.	0.001	-	-	-	
	Yield	500.00	-	-	-	
Reasi	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Samba	Area	-	-	-	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Jharkhand						
Bokaro	Area	-	-	0.06	-	0.78
	Prod.	-	-	0.03	-	0.47
	Yield	-	-	548	-	599
Chatra	Area	0.98	2	2	2	2
	Prod.	0.75	1	2	2	2
	Yield	770	780	780	780	790
Deoghar	Area	0.80	1	0.30	0.13	0.71
	Prod.	0.52	0.94	0.20	0.09	0.49
	Yield	650	650	651	703	701
Dhanbad	Area	-	0.20	0.21	0.06	0.04
	Prod.	-	0.12	0.13	0.04	0.03
	Yield	-	620	621	607	694
Dumka	Area	2	1	1	2	3
	Prod.	0.77	0.86	0.96	0.85	1.21
	Yield	400	700	700	524	480
East Singhbhum	Area	0.6	1.6	2.0	1.4	1.7
	Prod.	0.2	0.6	1.3	0.9	1.1
	Yield	388	350	650	650	650
Garhwa	Area	0.10	0.11	0.10	0.35	0.11
	Prod.	0.05	0.06	0.05	0.14	0.04
	Yield	530	533	530	410	410
Giridhi	Area	0.01	0.16	0.30	0.11	0.11
	Prod.	0.01	0.07	0.15	0.05	0.05
	Yield	385	448	479	477	486
Godda	Area	2	3	3	2	2
	Prod.	0.71	1	0.00	0.00	2
	Yield	450	450	0.00	0.00	680
Gumla	Area	1	0.83	0.90	0.41	0.48
	Prod.	0.66	0.60	0.71	0.32	0.39
	Yield	595	718	786	782	805
Hazaribagh	Area	0.30	2	2	0.08	0.08
	Prod.	0.27	0.95	1.31	0.04	0.02
	Yield	882	620	700	452	299
Khunti	Area	0.32	0.01	1.10	0.61	0.57
	Prod.	0.12	0.00	0.44	0.24	0.23
	Yield	382	364	400	400	400
Koderma	Area	0.95	1	2	0.88	1.06
	Prod.	0.43	1.04	1.31	0.62	0.74
	Yield	450	700	700	700	700
Latehar	Area	2.30	3	3	3	2
	Prod.	1	1	1	2	1
	Yield	527	528	527	532	530
Lohardaga	Area	0.22	0.30	0.20	0.41	0.32
	Prod.	0.12	0.16	0.07	0.22	0.17

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Pakur	Yield	532	530	325	529	530
	Area	1	2	2.07	1	2
	Prod.	1.01	1	2	1	2
Palamu	Yield	800	850	850	850	850
	Area	1.06	3.03	4	4	2
	Prod.	0.42	2	1	2	1
Ramgarh	Yield	400	620	402	410	480
	Area	0.09	0.15	1	0.04	0.03
	Prod.	0.07	0.09	0.94	0.02	0.01
Ranchi	Yield	835	620	710	500	313
	Area	0.68	0.77	1	0.69	1.06
	Prod.	0.39	0.39	0.69	0.42	0.64
Sahebganj	Yield	570	501	500	600	600
	Area	2	3	4	3	2
	Prod.	0.49	0.67	0.90	0.65	0.57
Saraikela Kharsawan	Yield	250	245	245	245	245
	Area	2	3	4	2.60	1
	Prod.	2	3	4	1.07	1
Simdega	Yield	800	1100	1100	410	1100
	Area	2	4	3	3	3
	Prod.	1	2	2.06	2	2.08
West Singhbhum	Yield	615	615	615	615	600
	Area	5	7	15	11	10.99
	Prod.	3	4	8	6	6
Karnataka	Yield	540	560	570	494	511
	Area	2	2	1.02	0.46	0.03
	Prod.	0.32	0.08	0.32	0.07	0.02
Bagalkot	Yield	134	46	315	153	667
	Area	-	-	-	0.00	0.00
	Prod.	-	-	-	0.00	0.00
Bangalore Rural	Yield	-	-	-	0.00	500
	Area	0.25	0.15	0.14	0.13	0.10
	Prod.	0.03	0.03	0.07	0.04	0.05
Belgaum	Yield	131	190	462	344	451.92
	Area	0.01	-	-	-	0.00
	Prod.	0.00	-	-	-	0.00
Bengaluru Urban	Yield	167	-	-	-	500
	Area	0.13	0.30	0.16	0.07	0.01
	Prod.	0.02	0.02	0.06	0.01	0.00
Bidar	Yield	120	54	348	203	400
	Area	1.07	-	0.26	0.33	0.02
	Prod.	0.08	-	0.09	0.07	0.01
Bijapur	Yield	76	-	345	207	467
	Area	-	-	-	0.02	0.07
	Prod.	-	-	-	0.01	0.03
Chikballapur	Yield	-	-	-	208.00	492.31

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Chikmagalur	Area	0.02	-	-	0.001	-
	Prod.	0.002	-	-	0.0	-
	Yield	125	-	-	0.0	-
Chitradurga	Area	-	-	-	0.03	0.04
	Prod.	-	-	-	0.01	0.02
	Yield	-	-	-	214	500.00
Dharwad	Area	0.01	-	-	0.01	-
	Prod.	0.002	-	-	0.002	-
	Yield	143	-	-	250	-
Gadag	Area	0.11	0.13	0.08	0.02	0.01
	Prod.	0.01	0.00	0.03	0.004	0.01
	Yield	86	16	416	200	500
Gulbarga	Area	0.26	0.23	0.02	0.03	-
	Prod.	0.03	0.01	0.01	0.01	-
	Yield	119	56	348	207	-
Haveri	Area	0.03	0.01	0.02	0.01	0.01
	Prod.	0.004	0.001	0.006	0.002	0.002
	Yield	118	77	353	167	400
Koppal	Area	0.58	0.14	0.36	0.12	0.004
	Prod.	0.09	0.01	0.13	0.03	0.002
	Yield	151	44	367	273	500
Mysore	Area	0.02	-	-	-	0.01
	Prod.	0.002	-	-	-	0.003
	Yield	125	-	-	-	500
Raichur	Area	-	-	-	-	0.01
	Prod.	-	-	-	-	0.002
	Yield	-	-	-	-	400.00
Tumkur	Area	0.06	0.15	-	0.47	0.51
	Prod.	0.01	0.01	-	0.10	0.25
	Yield	127	52	-	207	492
Yadgir	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Madhya Pradesh						
Agar Malwa	Area	-	-	0.24	0.13	0.05
	Prod.	-	-	0.19	0.06	0.06
	Yield	-	-	792	433	1212
Anuppur	Area	2	5	4	3.09	1
	Prod.	1	1	2	1	1.01
	Yield	500	200	362	426	780
Ashoknagar	Area	-	-	0.05	0.03	0.001
	Prod.	-	-	0.02	0.04	0.002
	Yield	-	-	400	1400	2000
Balaghat	Area	9	25	21	5	4
	Prod.	4	5	8	3	3
	Yield	444	200	374	592	659
Barwani	Area	-	-	0.37	0.00	0.00

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	-	0.26	0.00	0.00
	Yield	-	-	703	0	1000
	Area	-	-	0.47	0.01	0.00
Betul	Prod.	-	-	0.29	0.01	0.00
	Yield	-	-	617	727	1500.00
	Area	1	-	4	0.00	2.40
Bhind	Prod.	1	-	2	0.00	4
	Yield	1000	-	539	0.00	1532.25
	Area	-	-	0.02	0.00	-
Bhopal	Prod.	-	-	0.02	0.00	-
	Yield	-	-	1000	667	-
	Area	3	6	6	2	3
Chhatarpur	Prod.	1	5	5	2	2
	Yield	333	833	746	714	779
	Area	1	-	2	0.01	0.01
Chhindwara	Prod.	1	-	2	0.01	0.02
	Yield	1000	-	1100	1000	1545
	Area	2	2	1	0.06	0.10
Damoh	Prod.	1	1	0.89	0.06	0.07
	Yield	500	500	802	873	732
	Area	4	-	22	0.00	0.01
Dewas	Prod.	2	-	10	0.00	0.01
	Yield	500	-	450	1000	429
	Area	-	-	-	0.01	0.00
Dhar	Prod.	-	-	-	0.01	0.00
	Yield	-	-	-	909	1000
	Area	3	6	7	2	2
Dindori	Prod.	2	3	3	0.9	1
	Yield	667	500	480	379	770
	Area	-	-	-	0.002	0.06
Guna	Prod.	-	-	-	0.002	0.04
	Yield	-	-	-	1000	578
	Area	-	-	0.2	0.00	0.01
Gwalior	Prod.	-	-	0.2	0.00	0.01
	Yield	-	-	750	0.00	1500.00
	Area	-	-	-	0.00	0.04
Harda	Prod.	-	-	-	0.00	0.03
	Yield	-	-	-	0.00	657.89
	Area	-	-	-	0.03	-
Hoshangabad	Prod.	-	-	-	0.02	-
	Yield	-	-	-	800	-
	Area	-	-	0.01	0.01	4
Indore	Prod.	-	-	0.01	0.004	2
	Yield	-	-	1000	800	596
	Area	1	-	1	0.06	0.08
Jabalpur	Prod.	1	-	0.91	0.06	0.11
	Yield	1000	-	700	984	1262

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Jhabua	Area	-	-	0.04	-	0.01
	Prod.	-	-	0.03	-	0.01
	Yield	-	-	750	-	1714
Katni	Area	2	3	3	0.2	0.2
	Prod.	1	2	2.1	0.1	0.3
	Yield	500	667	647	822	1182
Khandwa	Area	-	-	0.00	0.00	0.01
	Prod.	-	-	0.00	0.00	0.01
	Yield	-	-	0	500	1077
Khargone	Area	-	-	0.05	0.00	0.02
	Prod.	-	-	0.02	0.00	0.02
	Yield	-	-	400	0	1050
Mandla	Area	4	8	4	0.66	0.01
	Prod.	2	4	2	0.39	0.02
	Yield	500	500	488	596	1308
Mandsaur	Area	4	6	8	9	-
	Prod.	3	6	5	8	-
	Yield	750	1000	725	854	-
Morena	Area	-	-	8	0.00	12
	Prod.	-	-	3	0.00	11
	Yield	-	-	390	0	946
Narsinghpur	Area	-	-	0.01	0.01	0.18
	Prod.	-	-	0.01	0.01	0.19
	Yield	-	-	1000	923	1072
Neemuch	Area	-	-	2	2	0.02
	Prod.	-	-	2	2	0.01
	Yield	-	-	679	702	875
Panna	Area	1	-	0.21	0.03	0.01
	Prod.	0.00	-	0.1	0.02	0.01
	Yield	0	-	619	706	1000
Raisen	Area	1	-	0.00	0.05	0.00
	Prod.	0.00	-	0.00	0.04	0.01
	Yield	0.00	-	0.00	722	2750.00
Rajgarh	Area	-	-	0.04	0.00	0.01
	Prod.	-	-	0.03	0.00	0.01
	Yield	-	-	750	1000	1500
Ratlam	Area	1	2	3	2	0.01
	Prod.	1	2	4	4	0.01
	Yield	1000	1000	1205	1693	714
Rewa	Area	11	10.00	17	2.00	3
	Prod.	6	6	6	1	3
	Yield	545	600	361	560	1002
Sagar	Area	2	4	2	0.29	0.09
	Prod.	1	2	0.78	0.25	0.09
	Yield	500	500	429	874	955
Satna	Area	4	7	7	0.41	0.43
	Prod.	2	7	7	0.14	0.21

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Shore	Yield	500	1000	967	347	480
	Area	-	-	0.01	0.01	0.01
	Prod.	-	-	0.01	0.02	0.02
Seoni	Yield	-	-	1000	1286	1692
	Area	4	7	7	3	2
	Prod.	1	2	3	1	1
Shahdol	Yield	250	286	489	413	598
	Area	3	6	7	0.49	3
	Prod.	2	2	3	0.17	1
Shajapur	Yield	667	333	400	351	558
	Area	-	-	0.05	0.03	-
	Prod.	-	-	0.04	0.03	-
Sheopur	Yield	-	-	800	963	-
	Area	-	-	3	0.00	3
	Prod.	-	-	4	0.01	3
Shivpuri	Yield	-	-	1150.00	1750.00	1259.83
	Area	-	-	0.00	0.00	0.03
	Prod.	-	-	0.00	0.01	0.05
Sidhi	Yield	-	-	0.00	2500.00	1451.61
	Area	6	8	10.50	2	3
	Prod.	3	3	5	0.59	2
Singrauli	Yield	500.00	375	448	387	557
	Area	4	7	7	2	3
	Prod.	2	3	3	2	5
Tikamgarh	Yield	500.00	429	473	1266	1682.83
	Area	-	-	0.70	0.02	0.00
	Prod.	-	-	0.24	0.01	0.00
Ujjain	Yield	-	-	343	526	1000.00
	Area	-	-	0.34	0.13	0.00
	Prod.	-	-	0.26	0.09	0.00
Umaria	Yield	-	-	765	713	500.00
	Area	-	7	3	0.93	5
	Prod.	-	4	2	0.66	3
Vidisha	Yield	-	571	614	710	543
	Area	-	-	0.02	0.03	0.00
	Prod.	-	-	0.02	0.03	0.00
Maharashtra	Yield	-	-	1000	1074	3000
	Area	-	-	0.05	0.01	0.02
	Prod.	-	-	0.02	0.01	0.01
Ahmednagar	Yield	-	-	340.00	385	227
	Area	0.7	0.8	1	0.01	0.13
	Prod.	0.1	0.4	0.38	0.00	0.04
Beed	Yield	71	513	333	400.00	310.08
	Area	7	4	4	3	1
	Prod.	2	0.70	1	2	0.35
Bhandara	Yield	348	159	278	543	261

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Buldhana	Area	0.02	-	-	-	-
	Prod.	0.00	-	-	-	-
	Yield	267	-	-	-	-
Chandrapur	Area	2	0.9	0.4	0.4	0.4
	Prod.	0.4	0.2	0.1	0.1	0.3
	Yield	200	222	250	233	658
Gadchiroli	Area	1	1	1	1.1	1.0
	Prod.	0.3	0.3	0.3	0.3	0.2
	Yield	214	214	231	278	222
Gondia	Area	3	3	2	2	1
	Prod.	0.5	0.5	0.7	0.4	0.5
	Yield	172	192	368	237	400.96
Jalgaon	Area	-	0.04	-	-	-
	Prod.	-	0.02	-	-	-
	Yield	-	500	-	-	-
Jalna	Area	-	0.01	-	-	0.01
	Prod.	-	0.00	-	-	0.01
	Yield	-	300	-	-	500
Latur	Area	0.50	0.60	0.32	0.17	0.24
	Prod.	0.10	0.10	0.10	0.07	0.07
	Yield	200	167	316	402	299
Nagpur	Area	0.10	-	0.01	0.00	0.04
	Prod.	0.02	-	0.00	0.00	0.01
	Yield	200	-	0	0	308
Nanded	Area	0.01	0.01	0.01	0.01	-
	Prod.	0.00	0.00	0.00	0.01	-
	Yield	100	375	400	417	-
Osmanabad	Area	2	3	1.70	0.72	0.79
	Prod.	0.30	1	0.60	0.30	0.39
	Yield	158	324	352	414	491
Parbhani	Area	0.02	0.04	0.09	0.13	0.03
	Prod.	0.00	0.01	0.03	0.05	0.01
	Yield	150	250	353	397	231
Sangli	Area	-	0.01	-	-	0.01
	Prod.	-	0.01	-	-	0.01
	Yield	-	600	-	-	500
Solapur	Area	0.10	0.03	0.08	-	0.18
	Prod.	0.01	0.02	0.03	-	0.05
	Yield	100	667	350	-	290
Meghalaya						
South West Garo Hills	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	615	615	615	615	
West Garo Hills	Area	0.08	0.08	0.08	0.08	
	Prod.	0.05	0.05	0.05	0.05	
	Yield	577	582	588	593	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Nagaland						
Dimapur	Area	1	1	1	1	1
	Prod.	0.9	0.9	0.9	0.9	0.9
	Yield	821	823	823	823	823
Kiphire	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	800	800	810	810	818
Kohima	Area	0.5	0.5	0.5	0.5	0.5
	Prod.	0.4	0.4	0.4	0.4	0.4
	Yield	809	809	809	809	809
Longleng	Area	0.2	0.2	0.2	0.3	0.3
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	826	826	833	800	800
Mokokchung	Area	0.8	0.8	0.8	0.8	0.8
	Prod.	0.6	0.6	0.6	0.6	0.6
	Yield	803	805	805	818	818
Mon	Area	0.6	0.6	0.6	0.6	0.6
	Prod.	0.5	0.5	0.5	0.5	0.5
	Yield	818	818	804	804	804
Peren	Area	0.6	0.6	0.6	0.6	0.6
	Prod.	0.5	0.5	0.5	0.5	0.5
	Yield	821	825	825	825	825
Phek	Area	0.7	0.7	0.7	0.7	0.7
	Prod.	0.5	0.5	0.5	0.5	0.5
	Yield	803	803	803	803	803
Tuensang	Area	0.4	0.4	0.4	0.4	0.4
	Prod.	0.3	0.3	0.3	0.3	0.3
	Yield	806	806	806	806	806
Wokha	Area	0.6	0.6	0.6	0.6	0.6
	Prod.	0.5	0.5	0.5	0.5	0.5
	Yield	800	814	814	814	814
Zunheboto	Area	0.3	0.3	0.3	0.3	0.3
	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	750	750	821	821	821
Rajasthan						
Ajmer	Area	0.002	0.04	0.25	0.00	0.00
	Prod.	0.004	0.03	0.24	0.00	0.00
	Yield	2000	725	933	750	1000
Baran	Area	0.29	0.30	0.41	0.04	0.04
	Prod.	0.48	0.25	0.58	0.05	0.05
	Yield	1632	823	1421	1211	1400
Barmer	Area	0.003	0.01	0.01	0.001	0.03
	Prod.	0.002	0.01	0.01	0.001	0.02
	Yield	667	1250	929	1000	750
Bharatpur	Area	-	0.02	-	-	0.001
	Prod.	-	0.08	-	-	0.001
	Yield	-	4000	-	-	1000

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Bhilwara	Area	0.06	0.04	0.04	0.00	0.04
	Prod.	0.05	0.04	0.04	0.00	0.05
	Yield	844	854	1000	1000	1186
Bikaner	Area	-	-	-	0.001	-
	Prod.	-	-	-	0.001	-
	Yield	-	-	-	1000	-
Bundi	Area	0.04	0.06	0.03	0.02	0.04
	Prod.	0.06	0.10	0.04	0.03	0.06
	Yield	1641	1672	1357	1500	1447
Chittorgarh	Area	0.04	0.06	0.03	0.20	0.36
	Prod.	0.06	0.10	0.04	0.18	0.30
	Yield	1641	1672	1357	890	837
Churu	Area	-	0.03	-	0.02	0.01
	Prod.	-	0.01	-	0.02	0.01
	Yield	-	400	-	1000	750
Ganganagar	Area	0.00	0.05	0.06	0.03	0.10
	Prod.	0.01	0.05	0.09	0.04	0.14
	Yield	2000	1020	1387	1407	1404
Hanumangarh	Area	0.00	-	-	-	-
	Prod.	0.00	-	-	-	-
	Yield	1000	-	-	-	-
Jaipur	Area	0.06	0.001	0.006	0.001	0.002
	Prod.	0.11	0.001	0.005	0.001	0.002
	Yield	2000	1000	833	1000	1000
Jaisalmer	Area	-	-	0.002	-	-
	Prod.	-	-	0.002	-	-
	Yield	-	-	1000	-	-
Jalore	Area	0.02	0.01	0.001	0.003	-
	Prod.	0.01	0.00	0.001	0.01	-
	Yield	471	444	1000	1667	-
Jhalawar	Area	0.3	0.8	0.9	0.7	1.0
	Prod.	0.3	1.0	0.4	0.3	0.4
	Yield	1198	1196	400.00	401.00	399.80
Jodhpur	Area	0.002	0.02	0.01	0.01	-
	Prod.	0.001	0.11	0.01	0.01	-
	Yield	500	7000	714	800	-
Kota	Area	0.03	0.13	0.19	0.05	0.09
	Prod.	0.03	0.13	0.19	0.05	0.09
	Yield	1000	962	1000	1000	1000
Nagaur	Area	0.4	4	0.8	0.3	0.02
	Prod.	0.2	8	0.9	0.3	0.03
	Yield	413	1980	1065	1208	1087
Pali	Area	0.06	0.03	0.01	0.01	0.04
	Prod.	0.02	0.06	0.01	0.01	0.04
	Yield	322	2000	1000	857	923
Pratapgarh	Area	0.6	1	2.05	2	3
	Prod.	0.6	1	2	2	3

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	996	995	1197	1200	1162
Sikar	Area	-	-	-	0.001	0.004
	Prod.	-	-	-	0.003	0.003
	Yield	-	-	-	3000	750
Tonk	Area	0.01	28	0.01	0.02	0.01
	Prod.	0.01	27	0.01	0.02	0.01
	Yield	750	983	833	1000	833
Udaipur	Area	0.01	0.03	0.01	0.06	0.02
	Prod.	0.01	0.02	0.01	0.05	0.02
	Yield	1083	778	917	789	1118
Telangana						
Adilabad	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
Medak	Area	0.01	-	-	-	-
	Prod.	0.00	-	-	-	-
	Yield	429	-	-	-	-
Tripura						
Dhalai	Area	-	0.02	0.03	-	-
	Prod.	-	0.02	0.02	-	-
	Yield	-	708	710	-	-
Gomati	Area	-	0.03	0.03	-	-
	Prod.	-	0.02	0.02	-	-
	Yield	-	697	688	-	-
Khowai	Area	-	0.03	0.03	-	-
	Prod.	-	0.02	0.02	-	-
	Yield	-	741	704	-	-
North Tripura	Area	-	0.01	0.02	-	-
	Prod.	-	0.01	0.01	-	-
	Yield	-	700	688	-	-
Sepahijala	Area	-	0.02	-	-	-
	Prod.	-	0.01	-	-	-
	Yield	-	667	-	-	-
South Tripura	Area	-	0.03	-	-	-
	Prod.	-	0.02	-	-	-
	Yield	-	704	-	-	-
Unakoti	Area	-	0.01	0.01	-	-
	Prod.	-	0.01	0.01	-	-
	Yield	-	643	714	-	-
Uttar Pradesh						
Aligarh	Area	-	-	-	-	0.00
	Prod.	-	-	-	-	0.00
	Yield	-	-	-	-	1000
Allahabad	Area	0.5	1.1	0.3	0.8	0.5
	Prod.	0.1	0.4	0.3	0.6	0.2
	Yield	214	382	866	741	410
Ambedkar Nagar	Area	-	-	-	0.01	0.002

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	-	-	0.003	0.001
	Yield	-	-	-	600	500
	Area	0.01	0.07	0.07	0.09	0.05
Amethi	Prod.	0.00	0.04	0.05	0.06	0.03
	Yield	154	543	608	633	681
	Area	-	-	0.01	0.01	-
Amroha	Prod.	-	-	0.01	0.01	-
	Yield	-	-	636	667	-
	Area	0.02	-	0.01	-	-
Auraiya	Prod.	0.004	-	0.004	-	-
	Yield	174	-	667	-	-
	Area	-	-	0.03	0.03	-
Azamgarh	Prod.	-	-	0.02	0.02	-
	Yield	-	-	600	615	-
	Area	-	-	0.02	0.04	-
Baghpat	Prod.	-	-	0.01	0.03	-
	Yield	-	-	600	634	-
	Area	0.003	0.04	0.14	0.08	0.07
Bahraich	Prod.	0.001	0.02	0.09	0.05	0.05
	Yield	333	550	606	632	690
	Area	0.01	-	0.02	0.01	0.01
Balrampur	Prod.	0.00	-	0.01	0.01	0.01
	Yield	200	-	588	583	667
	Area	1	5	3	2	1
Banda	Prod.	0.1	3	2	2	1.03
	Yield	124	640	804	832	747
	Area	0.018	0.003	-	0.006	0.006
Barabanki	Prod.	0.004	0.002	-	0.004	0.004
	Yield	222	667	-	667	667
	Area	-	-	0.01	0.03	0.33
Bareilly	Prod.	-	-	0.01	0.02	0.23
	Yield	-	-	636	643	688
	Area	-	0.02	0.02	0.02	0.02
Basti	Prod.	-	0.01	0.01	0.02	0.02
	Yield	-	522	609	652	696
	Area	-	-	-	0.01	0.00
Bijnor	Prod.	-	-	-	0.01	0.00
	Yield	-	-	-	600	500
	Area	0.00	0.01	0.02	0.01	0.01
Budaun	Prod.	0.00	0.00	0.01	0.00	0.01
	Yield	0.00	571	591	600	714
	Area	-	-	0.05	0.02	0.002
Bulandshahr	Prod.	-	-	0.03	0.02	0.001
	Yield	-	-	604	625	500
	Area	0.53	0.58	0.45	2	0.58
Chandauli	Prod.	0.05	0.19	0.39	0.64	0.40
	Yield	103	321	859	388	688

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Chitrakoot	Area	0.72	2	0.45	0.50	0.45
	Prod.	0.09	1	0.26	0.45	0.31
	Yield	124	596	571	900	700
Etaj	Area	-	-	-	-	0.04
	Prod.	-	-	-	-	0.03
	Yield	-	-	-	-	690
Faizabad	Area	0.01	0.02	0.02	0.02	0.05
	Prod.	0.00	0.01	0.01	0.01	0.03
	Yield	214	550	600	600	694
Farrukhabad	Area	-	-	-	0.02	-
	Prod.	-	-	-	0.01	-
	Yield	-	-	-	632	-
Fatehpur	Area	0.03	0.09	0.18	0.17	0.14
	Prod.	0.01	0.04	0.16	0.13	0.06
	Yield	206	385	863	743	409
Ghaziabad	Area	-	-	-	-	0.01
	Prod.	-	-	-	-	0.01
	Yield	-	-	-	-	750
Ghazipur	Area	-	-	0.01	0.03	-
	Prod.	-	-	0.01	0.01	-
	Yield	-	-	818	385	-
Gonda	Area	0.01	0.03	0.03	0.03	0.03
	Prod.	0.00	0.02	0.02	0.02	0.02
	Yield	167	536	588	643	679
Gorakhpur	Area	-	-	0.03	0.03	0.03
	Prod.	-	-	0.02	0.02	0.02
	Yield	-	-	600	630	706
Hamirpur	Area	1	3	3	2.11	2.81
	Prod.	0.15	1.01	1.71	0.95	2
	Yield	124	298	652	452	689
Hardoi	Area	-	-	0.00	0.02	0.01
	Prod.	-	-	0.00	0.01	0.00
	Yield	-	-	667	667	600.00
Hathras	Area	-	-	0.01	-	-
	Prod.	-	-	0.01	-	-
	Yield	-	-	625	-	-
Jalaun	Area	0.23	0.25	0.09	0.08	0.36
	Prod.	0.04	0.13	0.05	0.05	0.25
	Yield	193	538	607	627	687
Jaunpur	Area	-	-	0.23	-	-
	Prod.	-	-	0.20	-	-
	Yield	-	-	858	-	-
Jhansi	Area	0.17	0.35	0.66	1.03	0.75
	Prod.	0.03	0.19	0.40	0.65	0.52
	Yield	191	537	602	631	688
Kannauj	Area	-	-	-	-	-
	Prod.	-	-	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Kanpur Dehat	Yield	-	-	-	-	-
	Area	0.29	0.01	0.05	0.02	0.01
	Prod.	0.06	0.00	0.03	0.01	0.01
Kanpur Nagar	Yield	193	571	593	600	750
	Area	-	0.11	0.44	0.13	0.15
	Prod.	-	0.06	0.26	0.08	0.10
Kasganj	Yield	-	541	602	631	687
	Area	-	-	-	-	0.20
	Prod.	-	-	-	-	0.14
Kaushambi	Yield	-	-	-	-	687
	Area	0.01	-	-	-	-
	Prod.	0.00	-	-	-	-
Kheri	Yield	286	-	-	-	-
	Area	-	-	-	0.01	-
	Prod.	-	-	-	0.01	-
Kushi Nagar	Yield	-	-	-	615	-
	Area	-	-	-	-	0.003
	Prod.	-	-	-	-	0.002
Lalitpur	Yield	-	-	-	-	667
	Area	-	-	0.00	-	0.004
	Prod.	-	-	0.00	-	0.003
Lucknow	Yield	-	-	500	-	750
	Area	-	-	-	-	0.001
	Prod.	-	-	-	-	0.001
Mahaajanj	Yield	-	-	-	-	1000
	Area	0.17	0.14	0.22	-	0.002
	Prod.	0.03	0.08	0.13	-	0.001
Mahoba	Yield	189	540	600	-	500
	Area	3	8	7	7	9
	Prod.	0.3	6	4	6	6
Meerut	Yield	124	693	533	842	697
	Area	-	-	-	-	-
	Prod.	-	-	-	-	-
Mirzapur	Yield	-	-	-	-	-
	Area	3	4	3	5	3
	Prod.	1	2	2	2	2
Moradabad	Yield	233	479	608	521	688
	Area	-	-	-	0.02	-
	Prod.	-	-	-	0.01	-
Pilibhit	Yield	-	-	-	632	-
	Area	-	-	-	-	0.002
	Prod.	-	-	-	-	0.001
Pratapgarh	Yield	-	-	-	-	500
	Area	-	-	0.01	0.02	0.001
	Prod.	-	-	0.01	0.02	0.001
Rae Bareli	Yield	-	-	889	727	1000
	Area	0.01	0.03	0.04	0.05	0.05

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	0.001	0.02	0.02	0.03	0.03
	Yield	200	556	600	630	696
	Area	-	-	-	0.04	0.001
Saharanpur	Prod.	-	-	-	0.02	0.001
	Yield	-	-	-	639	1000
	Area	-	-	0.01	0.01	0.01
Sant Kabeer Nagar	Prod.	-	-	0.00	0.01	0.01
	Yield	-	-	571	625	714
	Area	-	-	0.01	-	-
Shahjahanpur	Prod.	-	-	0.01	-	-
	Yield	-	-	625	-	-
	Area	-	-	0.06	0.06	0.06
Shravasti	Prod.	-	-	0.04	0.04	0.04
	Yield	-	-	603	635	683
	Area	2	1	1	2	2
Siddharth Nagar	Prod.	0.32	0.78	0.82	0.96	1.04
	Yield	191	538	602	631	688
	Area	-	0.01	0.02	0.01	0.00
Sitapur	Prod.	-	0.01	0.01	0.01	0.00
	Yield	-	571	611	615	1000
	Area	4.41	5	5	5.40	5
Sonbhadra	Prod.	1	2	2	3	4
	Yield	254	440	487	477	688
	Area	0.02	0.02	0.04	0.02	0.02
Sultanpur	Prod.	0.00	0.01	0.02	0.01	0.01
	Yield	190	545	600	619	667
	Area	0.01	0.02	0.02	0.10	0.02
Unnao	Prod.	0.00	0.01	0.01	0.06	0.01
	Yield	154	545	591	627	667
	Area	-	-	-	0.02	0.02
Varanasi	Prod.	-	-	-	0.01	0.02
	Yield	-	-	-	409	696
	Uttarakhand					
Dehradun	Area	-	0.02	-	0.01	
	Prod.	-	0.01	-	0.01	
	Yield	-	429	-	1000	
Nainital	Area	-	0.003	-	-	
	Prod.	-	0.001	-	-	
	Yield	-	333	-	-	
Udam Singh Nagar	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
West Bengal						
Paraganas North	Area	-	0.002	0.17	0.03	
	Prod.	-	0.001	0.04	0.01	
	Yield	-	500	220	481	
Paraganas South	Area	0.2	0.3	0.05	0.11	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	0.1	0.2	0.01	0.05	
	Yield	370	604	222	467	
	Area	-	0.5	0.3	0.5	
Alipurduar	Prod.	-	0.2	0.1	0.2	
	Yield	-	400	217	465	
	Area	0.1	0.3	0.1	0.11	
Bankura	Prod.	0.03	0.07	0.03	0.03	
	Yield	202	268	269	301	
	Area	0.8	0.2	0.4	0.3	
Birbhum	Prod.	0.2	0.07	0.09	0.12	
	Yield	239	381	218	464	
	Area	0.74	1.02	1.05	0.63	
Cooch-Behar	Prod.	0.35	0.41	0.23	0.29	
	Yield	472	400	218	464	
	Area	0.22	0.12	0.05	0.08	
Darjeeling	Prod.	0.10	0.05	0.01	0.04	
	Yield	471	400	216	463	
	Area	0.0	0.2	0.1	0.1	
Dinajpur Dakshin	Prod.	0.00	0.07	0.01	0.06	
	Yield	500	316	184	460.00	
	Area	0.4	1.0	0.9	0.6	
Dinajpur Uttar	Prod.	0.2	0.3	0.2	0.3	
	Yield	471	316	189	456	
	Area	-	-	0.04	-	
Hooghly	Prod.	-	-	0.01	-	
	Yield	-	-	214	-	
	Area				0.01	
Howrah	Prod.				0.01	
	Yield				455	
	Area	0.07	0.26	0.28	0.15	
Jalpaiguri	Prod.	0.02	0.11	0.06	0.07	
	Yield	343	402	217	467	
	Area	1.5	0.9	0.1	0.3	
Maldah	Prod.	0.7	0.3	0.02	0.2	
	Yield	472	315	186	609	
	Area	0.01	0.03	0.02	0.01	
Medinipur East	Prod.	0.001	0.01	0.01	0.004	
	Yield	167	276	263	308	
	Area	0.3	0.4	0.7	0.3	
Murshidabad	Prod.	0.1	0.1	0.1	0.1	
	Yield	371	204	178	449	
	Area	0.6	0.6	0.2	0.3	
Nadia	Prod.	0.2	0.3	0.0	0.1	
	Yield	369	546	219	459	
	Area	0.9	0.2	0.1	-	
Purba Bardhaman	Prod.	0.2	0.09	0.03	-	
	Yield	239	378	221	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Purulia	Area	0.4	0.6	0.4	-	
	Prod.	0.1	0.2	0.08	-	
	Yield	227	297	219	-	

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>.

8. Niger

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8.1 All India Area, Production and Yield of Niger

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Niger over Total Area under Oilseeds
2015-16	252	74	295	1
2016-17	256	85	332	1
2017-18	218	70	321	1
2018-19	156	45	290	
2019-20	136	41	303	

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

8.2 State-wise Area, Production and Yield of Niger in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	7	6.0	6	6	4
	Prod.	3	2	2	2	1
	Yield	429	333	413	318	331
Arunachal Pradesh	Area	-	0.19	0.2	--	0.2
	Prod.	-	0.19	0.2	--	0.2
	Yield	-	995	1000	--	1000
Assam	Area	7	5.98	6	6	6
	Prod.	4	3.32	3	3	3
	Yield	604	555	564	550	558
Chhattisgarh	Area	61	65.30	56	56	51
	Prod.	10	12.20	10	11	10
	Yield	160	187	188	192	190
Dadra and Nagar Haveli	Area	-	0.03	-	--	0.03
	Prod.	-	0.01	-	--	0.01
	Yield	-	367	-	--	350
Gujarat	Area	6	5.0	4	0.01	3
	Prod.	3	3.0	2	0.02	1
	Yield	500	600	500	1600	450
Jammu & Kashmir	Area	-	1.23	-	--	--
	Prod.	-	0.96	-	--	--
	Yield	-	776	-	--	--
Jharkhand	Area	4	10.7	5	5	3
	Prod.	2	7.5	3	3	1
	Yield	520	701	567	548	480
Karnataka	Area	7	6.0	4	1	1
	Prod.	2	1.00	1	0.2	0.2
	Yield	286	167	218	200	248
Madhya Pradesh	Area	80	74.00	61	18	6
	Prod.	23	27.00	21	5	2
	Yield	288	365	344	300	333
Maharashtra	Area	12	14.10	13	11	8

State		2015-16	2016-17	2017-18	2018-19	2019-20
Odisha	Prod.	2	2.30	2	1	2
	Yield	167	163	159	122	200
	Area	64	63.75	59	53	53
	Prod.	23	22.66	22	20	20
	Yield	353	355	368	367	371
	Area	4	4.13	5	1	1
West Bengal	Prod.	3	3.01	3	1	1
	Yield	738	728	700	501	516
	Area	-	-	-	0.1	-
Others	Prod.	-	-	-	0.03	-
	Yield	-	-	-	550	-
	Area	252	256.41	218	156	136
India	Prod.	74	85.14	70	45	41
	Yield	295	332	321	290	303

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

8.3 District-wise Area, Production and Yield of Niger in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh						
Prakasam	Area	-	-	-	0.004	-
	Prod.	-	-	-	0.001	-
	Yield	-	-	-	250	-
Vishakapatnam	Area	7	6	6	6	4
	Prod.	3	2	2	2	1
	Yield	385	390	413	318	331
Vijayanagaram	Area	0.03	0.01	0.01	-	-
	Prod.	0.02	0.01	0.004	-	-
	Yield	500	500	571	-	-
Assam						
Baksa	Area	0.4	0.4	0.4	0.4	
	Prod.	0.2	0.3	0.1	0.2	
	Yield	403	749	415	581	
Barpeta	Area	1	1	1	1	
	Prod.	1	1	1	1	
	Yield	774	436	555	554	
Bongaigaon	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	607	375	376	350	
Cachar	Area	0.02	0.02	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	471	438	500	500	
Chirang	Area	0.2	0.2	0.3	0.2	
	Prod.	0.1	0.1	0.2	0.1	
	Yield	637	610	684	550	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Darrang	Area	0.6	0.4	0.5	0.4	
	Prod.	0.3	0.3	0.3	0.2	
	Yield	495	623	620	621	
Dhemaji	Area	0.002	0.002	0.002	0.004	
	Prod.	0.001	0.001	0.001	0.002	
	Yield	500	500	500	500	
Dhubri	Area	0.3	0.4	0.4	0.4	
	Prod.	0.2	0.2	0.2	0.2	
	Yield	515	602	603	619	
Dima Hasao	Area	0.01	0.03	0.01	0.02	
	Prod.	0.01	0.02	0.01	0.01	
	Yield	500	536	500	500	
Goalpara	Area	0.9	0.3	0.3	0.3	
	Prod.	0.5	0.2	0.2	0.2	
	Yield	575	574	699	699	
Hailakandi	Area	0.002	0.003	-	0.001	
	Prod.	0.001	0.001	-	0.001	
	Yield	500	333	-	1000	
Jorhat	Area	-	0.001	-	-	
	Prod.	-	0.001	-	-	
	Yield	-	1000	-	-	
Kamrup	Area	0.4	0.3	0.3	0.3	
	Prod.	0.2	0.2	0.2	0.2	
	Yield	518	519	519	517	
Kamrup Metro	Area	0.02	0.01	0.01	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	522	500	500	533	
Karbi Anglong	Area	0.03	0.05	0.06	0.06	
	Prod.	0.01	0.03	0.03	0.03	
	Yield	520	500	509	516	
Kokrajhar	Area	1.0	0.8	0.7	0.7	
	Prod.	0.5	0.4	0.4	0.4	
	Yield	535	527	530	531	
Lakhimpur	Area	0.002	0.002	0.006	0.012	
	Prod.	0.001	0.001	0.004	0.003	
	Yield	500	500	667	250	
Marigaon	Area	0.2	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	460	463	467	502	
Magaon	Area	0.3	0.3	0.4	0.2	
	Prod.	0.3	0.3	0.2	0.1	
	Yield	1085	969	652	539	
Nalbari	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	542	400	486	403	
Sivasagar	Area	-	-	-	-	
	Prod.	-	-	-	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	-	-	-	-	
Sonitpur	Area	0.1	0.2	0.2	0.2	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	556	569	522	551	
Tinsukia	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	478	500	500	500	
Udalguri	Area	0.3	0.5	0.4	0.4	
	Prod.	0.1	0.3	0.3	0.2	
	Yield	406	615	650	540	
Chhattisgarh						
Balod	Area	0.004	-	-		
	Prod.	0.001	-	-		
	Yield	250	-	-		
Baloda Bazar	Area	0.005	-	-		
	Prod.	0.001	-	-		
	Yield	200	-	-		
Balrampur	Area	12	12	9	11	
	Prod.	2	2	2	2	
	Yield	156	181	173	168	
Bastar	Area	8	7	7	6	
	Prod.	1	1	1	1	
	Yield	115	219	213	213	
Bijapur	Area	0.01	-	0.01	0	
	Prod.	0.001	-	0.003	0	
	Yield	200	-	300	0	
Bilaspur	Area	0.2	0.2	0.2	0.1	
	Prod.	0.05	0.07	0.04	0.02	
	Yield	202	269	183	288	
Dantewada	Area	0.4	0.4	0.3	0.3	
	Prod.	0.1	0.1	0.05	0.1	
	Yield	155	230	143	281	
Dhamtari	Area	-	-	-	0.007	
	Prod.	-	-	-	0.002	
	Yield	-	-	-	286	
Jashpur	Area	23	22	21	20	
	Prod.	4	4	4	4	
	Yield	166	191	194	194	
Kabirdham	Area	0.3	0.1	0.2	0.1	
	Prod.	0.1	0.02	0.04	0.02	
	Yield	216	232	258	162	
Kanker	Area	0.1	0.1	0.5	0.4	
	Prod.	0.01	0.03	0.1	0.1	
	Yield	151	205	163	196	
Kondagaon	Area	2	2	2	1	
	Prod.	0.2	0.4	0.3	0.3	
	Yield	127	224	213	224	

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Korba	Area	0.4	0.4	0.4	0.3	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	201	266	266	246	
Korea	Area	2	2	2	2	
	Prod.	0.4	0.4	0.4	0.4	
	Yield	206	206	224	205	
Narayanpur	Area	1	1	1	1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	115	162	191	176	
Raigarh	Area	1	1	1	1	
	Prod.	0.2	0.2	0.2	0.2	
	Yield	181	180	172	172	
Rajnandgaon	Area	0.13	0.05	0.04	0.02	
	Prod.	0.03	0.01	0.01	0.003	
	Yield	214	244	333	200	
Sukma	Area	0.2	0.2	0.2	0.2	
	Prod.	0.03	0.04	0.04	0.04	
	Yield	184	195	200	204	
Surajpur	Area	5	4	4	4	
	Prod.	1	1	1	1	
	Yield	159	145	174	188	
Surguja	Area	9	9	8	7	
	Prod.	2	1	1	1	
	Yield	173	168	173	194	
Dadra & Nagar Haveli						
Dadra & Nagar Haveli	Area	0.1	0.03	0.13	0.03	
	Prod.	0.1	0.01	0.09	0.01	
	Yield	594	367	682	367	
Jarkhand						
Bokaro	Area	0.1	0.3	0.4	0.4	-
	Prod.	0.0	0.1	0.2	0.2	-
	Yield	367	369	520	520	-
Chatra	Area	-	0.1	0.2	0.1	0.1
	Prod.	-	0.0	0.1	0.1	0.1
	Yield	-	584	587	591	612
Deoghar	Area	0.02	0.04	0.11	-	-
	Prod.	0.01	0.03	0.05	-	-
	Yield	500	651	500	-	-
Dumka	Area	0.03	0.04	0.05	0.10	-
	Prod.	0.02	0.03	0.03	0.06	-
	Yield	586	605	593	600	-
East Singhbhum	Area	1	1	1	0.4	0.3
	Prod.	0.4	0.5	0.5	0.3	0.1
	Yield	613	560	645	580	580
Garhwa	Area	-	-	-	0.1	-
	Prod.	-	-	-	0.1	-
	Yield	-	-	-	521	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Giridih	Area	-	-	0.01	0.06	0.04
	Prod.	-	-	0.00	0.03	0.02
	Yield	-	-	400	413	425
Godda	Area	-	0.1	-	0.1	1
	Prod.	-	0.1	-	0.4	1
	Yield	-	650	-	5970	494
Gumla	Area	1.1	0.9	1.1	1.0	-
	Prod.	0.5	0.5	0.6	0.5	-
	Yield	432	532	548	494	-
Hazaribagh	Area	0.1	-	0.04	-	0.10
	Prod.	0.1	-	0.02	-	0.05
	Yield	557	-	500	-	500
Khunti	Area	0.02	0.3	-	0.3	-
	Prod.	0.001	0.1	-	0.1	-
	Yield	45	349	-	348	-
Koderma	Area	0.04	0.4	-	0.1	0.1
	Prod.	0.02	0.2	-	0.03	0.03
	Yield	417	425	-	375	395
Latehar	Area	0.5	0.4	0.1	-	-
	Prod.	0.2	0.2	0.04	-	-
	Yield	418	420	424	-	-
Lohardaga	Area	0.1	-	0.4	0.3	0.5
	Prod.	0.0	-	0.1	0.1	0.1
	Yield	196	-	301	300	300
Pakur	Area	-	0.05	0.05	0.03	0.003
	Prod.	-	0.01	0.01	0.01	0.001
	Yield	-	234	234	414	333
Palamu	Area	0.004	-	0.01	0.04	0.02
	Prod.	0.002	-	0.01	0.02	0.01
	Yield	500	-	600	425	500
Ramgarh	Area	-	-	0.1	-	0.1
	Prod.	-	-	0.1	-	0.03
	Yield	-	-	500	-	507
Ranchi	Area	0.3	0.5	0.1	0.2	-
	Prod.	0.2	0.3	0.1	0.1	-
	Yield	601	599	450	402	-
Saraikela Kharsawan	Area	-	0.4	0.4	0.4	0.2
	Prod.	-	0.2	0.2	0.2	0.1
	Yield	-	500	500	650	648
Simdega	Area	0.3	5	1	1	-
	Prod.	0.3	5	1	1	-
	Yield	1000	1000	1000	1000	-
West Singhbhum	Area	0.1	2	0.5	0.5	0.4
	Prod.	0.1	1	0.3	0.3	0.2
	Yield	409	440	471	475	476
Karnataka						
Bagalkot	Area	-	-	0.04	0.004	0.01

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	-	0.01	0.001	0.003
	Yield	-	-	225	250	250
	Area	0.12	0.09	0.10	0.01	0.01
Bengaluru Rural	Prod.	0.03	0.02	0.02	0.001	0.003
	Yield	259	187	218	143	214
	Area	0.21	0.21	0.07	0.03	0.01
Belgaum	Prod.	0.07	0.04	0.02	0.01	0.003
	Yield	310	187	222	188	250
	Area	0.13	0.06	0.04	0.02	0.06
Bellary	Prod.	0.03	0.01	0.01	0.003	0.02
	Yield	256	182	225	188	246
	Area	0.10	0.08	0.03	0.01	0.02
Bengaluru Urban	Prod.	0.03	0.01	0.01	0.002	0.01
	Yield	260	182	231	200	227
	Area	0.3	0.7	0.4	0.3	0.2
Bidar	Prod.	0.1	0.2	0.1	0.1	0.1
	Yield	347	221	241	219	247
	Area	0.10	0.05	-	0.004	0.01
Bijapur	Prod.	0.02	0.01	-	0.001	0.003
	Yield	253	191	-	250	214
	Area	0.20	-	0.02	0.02	0.01
Chamarajanagar	Prod.	0.05	-	0.004	0.003	0.003
	Yield	259	-	222	176	250
	Area	0.05	0.07	0.06	0.02	-
Chikballapur	Prod.	0.01	0.01	0.01	0.004	-
	Yield	259	191	222	182	-
	Area	0.22	0.21	0.02	0.00	-
Chikmagalur	Prod.	0.07	0.04	0.00	0.00	-
	Yield	335	185	235	0	-
	Area	0.02	0.01	0.01	-	-
Chitradurga	Prod.	0.005	0.002	0.003	-	-
	Yield	263	167	214	-	-
	Area	0.1	0.1	0.2	0	-
Davangere	Prod.	0.03	0.03	0.1	0	-
	Yield	257	184	216	0	-
	Area	0.02	0.10	0.03	0	0.03
Dharwad	Prod.	0.00	0.02	0.01	0	0.01
	Yield	235	186	222	0	241
	Area	0.23	0.46	0.16	0.004	0.07
Gadag	Prod.	0.06	0.09	0.03	0.001	0.02
	Yield	258	186	179	250	246
	Area	0.57	0.15	0.18	0.04	0.01
Gulbarga	Prod.	0.13	0.02	0.04	0.01	0.00
	Yield	228	128	215	189	250
	Area	2	1	1	0	0
Hassan	Prod.	0.4	0.1	0.3	0.0	0.1
	Yield	275	189	293	259	249

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Haveri	Area	0.13	0.14	0.11	0	0.04
	Prod.	0.03	0.03	0.02	0	0.01
	Yield	256	190	215	0	243
Kodagu	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
Kolar	Area	0.09	0.09	0.06	0.06	0.03
	Prod.	0.02	0.02	0.01	0.01	0.01
	Yield	261	185	213	203	240
Koppal	Area	0.5	1.1	0.5	0.09	0.03
	Prod.	0.1	0.2	0.1	0.02	0.01
	Yield	268	179	215	230	265
Mandya	Area	0.7	0.5	0.5	0.2	0.04
	Prod.	0.2	0.1	0.1	0.03	0.01
	Yield	296	226	167	127	256
Mysore	Area	0.7	0.02	0.10	0.06	0.11
	Prod.	0.2	0.003	0.02	0.01	0.03
	Yield	256	200	216	206	245
Ramanagara	Area	0.6	0.2	0.31	0.01	0.02
	Prod.	0.1	0.04	0.07	0.00	0.01
	Yield	164	156	215	182	261
Raichur	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	182	-
Shimoga	Area	0.014	0.011	0.002	0.001	-
	Prod.	0.004	0.002	0.000	0.000	-
	Yield	286	182	0	0	-
Thumkur	Area	0.5	0.4	0.6	0	0.003
	Prod.	0.1	0.1	0.1	0	0.001
	Yield	169	150	131	0	333
Yadgir	Area	0.01	-	-	0	0.02
	Prod.	0.002	-	-	0	0.01
	Yield	222	-	-	0	238
Madhya Pradesh						
Agra Walwa	Area	-	-	-	0.008	-
	Prod.	-	-	-	0.002	-
	Yield	-	-	-	250	-
Anuppur	Area	8	8	9	3	2
	Prod.	4	3	4	1	1
	Yield	500	375	460	333	392
Ashoknagar	Area	-	-	1.2	0.02	0.004
	Prod.	-	-	0.3	0.004	0.001
	Yield	-	-	252	167	250
Balaghat	Area	-	-	0.6	0.0	-
	Prod.	-	-	0.2	0.0	-
	Yield	-	-	309	0	-
Barwani	Area	-	-	0.3	0.004	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	-	0.1	0.001	-
	Yield	-	-	233	250	-
	Area	3	3	1.36	0.13	0.01
Betul	Prod.	1	1	0.42	0.03	0.001
	Yield	333	333	309	197	143
	Area	-	-	0	0.005	-
Bhopal	Prod.	-	-	0	0.001	-
	Yield	-	-	0	200	-
	Area	-	-	-	0	-
Chhatarpur	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
	Area	6	4	19	1.5	0.1
Chhindwara	Prod.	2	1	6	0.3	0.05
	Yield	333	250	300	174	350
	Area	-	-	-	0.002	-
Damoh	Prod.	-	-	-	0.001	-
	Yield	-	-	-	500	-
	Area	-	-	-	0.008	-
Dewas	Prod.	-	-	-	0.002	-
	Yield	-	-	-	250	-
	Area	16	22	-	11	3
Dindori	Prod.	4	7	-	3	1
	Yield	250	318	-	299	289
	Area	-	-	-	0.01	0.01
Guna	Prod.	-	-	-	0.002	0.01
	Yield	-	-	-	400	455
	Area	-	-	4	0	0.004
Gwalior	Prod.	-	-	1	0	0.001
	Yield	-	-	239	0	250
	Area	-	-	0.80	0.01	0.09
Hoshangabad	Prod.	-	-	0.24	0.001	0.02
	Yield	-	-	300	200	205
	Area	4	2	-	1.1	0.4
Jabalpur	Prod.	1	1	-	0.3	0.1
	Yield	250	500	-	310	309
	Area	3	3	-	-	-
Jhabua	Prod.	2	1	-	-	-
	Yield	667	333	-	-	-
	Area	-	-	-	-	-
Kanti	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	0.4	0	-
Khandwa	Prod.	-	-	0.1	0	-
	Yield	-	-	325	0	-
	Area	2	2	2	0	-
Khargone	Prod.	0	1	1	0	-
	Yield	0	500	261	0	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Mandla	Area	2	14	4	0.2	0.2
	Prod.	1	6	2	0.1	0.1
	Yield	500	429	452	362	342
Mandsaur	Area	-	-	-	0.003	-
	Prod.	-	-	-	0.001	-
	Yield	-	-	-	333	-
Morena	Area	-	-	0.6	-	0.003
	Prod.	-	-	0.2	-	0.001
	Yield	-	-	250	-	333
Narsinghpur	Area	-	-	-	0.002	-
	Prod.	-	-	-	0.001	-
	Yield	-	-	-	500	-
Neemuch	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
Panna	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
Raisen	Area	-	-	-	0.01	0.02
	Prod.	-	-	-	0.003	0.004
	Yield	-	-	-	300	267
Rajgarh	Area	-	-	-	0.003	0.003
	Prod.	-	-	-	0.001	0.001
	Yield	-	-	-	333	333
Ratlam	Area	-	-	-	0	-
	Prod.	-	-	-	0	-
	Yield	-	-	-	0	-
Rewa	Area	-	-	-	0.017	0.005
	Prod.	-	-	-	0.003	0.001
	Yield	-	-	-	176	200
Sagar	Area	-	-	-	0	0
	Prod.	-	-	-	0	0
	Yield	-	-	-	571	600
Satna	Area	1	1	2	0.009	-
	Prod.	0	0	1	0.002	-
	Yield	0	0	462	222	-
Seoni	Area	-	-	1	0.05	0.01
	Prod.	-	-	1	0.02	0.002
	Yield	-	-	349	478	222
Shahdol	Area	-	1	1	0.04	0.01
	Prod.	-	1	1	0.02	0.01
	Yield	-	591	607	463	600
Shajapur	Area	-	-	-	0.008	-
	Prod.	-	-	-	0.002	-
	Yield	-	-	-	250	-
Sheopur	Area	-	-	1.1	-	0.004
	Prod.	-	-	0.3	-	0.001

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Shivpuri	Yield	-	-	264	-	250
	Area	-	-	10	0.06	0.004
	Prod.	-	-	3	0.01	0.001
Sidhi	Yield	-	-	305	228	250
	Area	-	-	0.3	-	-
	Prod.	-	-	0.2	-	-
Singhrauli	Yield	-	-	567	-	-
	Area	-	-	2	0.07	0.03
	Prod.	-	-	1	0.03	0.01
Tikkamgarh	Yield	-	-	-	343	400
	Area	-	-	-	0.04	0.01
	Prod.	-	-	-	0.01	0.002
Ujjain	Yield	-	-	-	200	-
	Area	-	-	-	0.005	-
	Prod.	-	-	-	0.001	-
Umaria	Yield	-	13	0.5	0.6	0.3
	Area	-	5	0.2	0.3	0.1
	Prod.	-	385	360	477	390
Maharashtra						
Ahmednagar	Yield	0.4	0.4	0.4	0.4	0.7
	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	250	168	147	180	149
Aurangabad	Yield	0.10	0.07	-	-	-
	Area	0.01	0.01	-	-	-
	Prod.	50	162	-	-	-
Beed	Yield	0.7	0.7	0.7	0.2	0.4
	Area	0.03	0.1	0.1	0.01	0.03
	Prod.	39	164	92	51	74
Buldhana	Yield	-	2	1	0.25	-
	Area	-	0.2	0.2	0.02	-
	Prod.	-	125	131	63	-
Dhule	Yield	0.01	-	0.04	0.18	0.26
	Area	0.002	-	0.01	0.03	0.04
	Prod.	200	-	250	143	145
Hingoli	Yield	0.4	-	-	-	0.4
	Area	0.03	-	-	-	0.1
	Prod.	75	-	-	-	141
Jalgaon	Yield	0.02	0.04	0.20	-	-
	Area	0.001	0.01	0.02	-	-
	Prod.	50	167	95	-	-
Kolhapur	Yield	0.1	0.2	0.2	-	0.4
	Area	0.03	0.03	0.04	-	0.2
	Prod.	300	168	149	-	400
Latur	Yield	1.2	1.3	0.9	0.8	0.6
	Area	0.1	0.2	0.1	0.1	0.2
	Prod.	83	128	84	98	269

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
Nanded	Area	0.4	0.5	0.5	0.2	0.2
	Prod.	0.01	0.04	0.04	0.02	0.02
	Yield	25	86	69	125	126
Nandurbar	Area	0.01	-	0.03	0.01	-
	Prod.	0.002	-	0.007	0.001	-
	Yield	200	-	250	200	-
Nasikh	Area	2	2	2	2	2
	Prod.	0.4	0.5	0.5	0.3	0.3
	Yield	167	238	238	144	145
Osmanabad	Area	2	3	3	3	1
	Prod.	0.2	0.4	0.4	0.2	0.1
	Yield	91	130	136	57	141
Palghar	Area	1	2	1	-	-
	Prod.	0.2	0.4	0.4	-	-
	Yield	154	238	239	-	-
Parbhani	Area	0.2	0.3	0.1	0.1	0.1
	Prod.	0.01	0.04	0.02	0.01	0.01
	Yield	50	137	128	68	167
Pune	Area	1	1	1	2	1
	Prod.	0.2	0.1	0.2	0.3	0.1
	Yield	250	168	160	184	143
Raigad	Area	0.10	0.06	-	-	0.004
	Prod.	0.01	0.01	-	-	0.001
	Yield	100	237	-	-	250
Ratnagiri	Area	1	-	-	-	-
	Prod.	0.1	-	-	-	-
	Yield	167	-	-	-	-
Sangli	Area	0.2	0.04	-	-	-
	Prod.	0.1	0.01	-	-	-
	Yield	500	167	-	-	-
Satara	Area	1.0	1.0	0.8	1.5	1.4
	Prod.	0.3	0.2	0.1	0.3	0.5
	Yield	300	168	148	180	370
Sindhudurg	Area	0.03	0.02	-	-	-
	Prod.	0.01	0.004	-	-	-
	Yield	333	250	-	-	-
Solapur	Area	0.10	0.06	0.11	0.10	0.12
	Prod.	0.02	0.01	0.02	0.01	0.01
	Yield	200	175	143	108	107
Tane	Area	0.10	0.04	-	-	-
	Prod.	0.01	0.01	-	-	-
	Yield	100	231	-	-	-
Odisha						
Gajapati	Area	-	0.1	0.1	0.1	2
	Prod.	-	0.01	0.02	0.01	1
	Yield	-	208	254	185	444
Kalahandi	Area	-	1	1	2	12

State / District		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	-	0.4	0.4	0.4	4
	Yield	-	373	295	234	351
	Area	-	1	1	1	7
Kandhamal	Prod.	-	0.2	0.1	0.2	3
	Yield	-	251	206	259	361
	Area	-	1.4	1.3	0.2	-
Kendujhar	Prod.	-	0.5	0.3	0.03	-
	Yield	-	348	242	124	-
	Area	-	7	10	11	16
Kotaput	Prod.	-	2	4	3	6
	Yield	-	316	375	292	371
	Area	-	1.5	1.0	2.0	0.5
Malkangiri	Prod.	-	0.2	0.2	0.4	0.2
	Yield	-	151	178	195	407
	Area	-	0.8	0.2	0.5	0.3
Nabarangpur	Prod.	-	0.3	0.1	0.2	0.1
	Yield	-	351	266	356	444
	Area	-	2	3	2	3
Rayagada	Prod.	-	1	1	1	1
	Yield	-	343	297	287	439
	Area	-	0.2	0.2	0.1	1.1
Sundargarh	Prod.	-	0.1	0.1	0.01	0.5
	Yield	-	267	264	155	445
	West Bengal					
Alipurduar	Area	-	0.4	0.3	0.3	
	Prod.	-	0.2	0.2	0.2	
	Yield	-	647	615	502	
Cooch-Bihar	Area	2	2	2	0.2	
	Prod.	2	2	1	0.1	
	Yield	841	837	650	593	
Darjeeling	Area	0.07	0.03	-	-	
	Prod.	0.05	0.02	-	-	
	Yield	689	720	-	-	
Dinajpur Uppar	Area	0.1	0.1	0.1	0.1	
	Prod.	0.04	0.03	0.05	0.04	
	Yield	455	447	793	513	
Jalpaiguri	Area	1	1	0.3	0.3	
	Prod.	1	1	0.2	0.2	
	Yield	581	597	599	559	
Jhargram	Area	-	-	-	0.03	
	Prod.	-	-	-	0.01	
	Yield	-	-	-	406	
Maldah	Area	-	0.01	0.01	-	
	Prod.	-	0.01	0.01	-	
	Yield	-	833	800	-	
Medinipur West	Area	0.07	0.07	-	-	
	Prod.	0.04	0.04	-	-	

State / District	2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	521	527	-	-
	Area	0.3	0.2	0.3	-
Purulia	Prod.	0.1	0.1	0.1	-
	Yield	380	369	342	-

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

9. Castor

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9.1 World Area, Production and Yield of Castor

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Prodn.	Yield
2015	1508	1988	1318
2016	1426	1595	1118
2017	1199	1577	1315
2018	1216	1765	1452
2019	1159	1408	1215

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

9.2 Area, Production and Yield of Castor in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Angola	Area	16	16	16	16	16
	Prodn.	4	4	4	4	4
	Yield	256	255	255	255	255
Bangladesh	Area	0.4	0.4	0.4	0.4	0.4
	Prodn.	0.3	0.3	0.3	0.3	0.3
	Yield	702	697	698	700	698
Benin	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	686	694	700	707	713
Brazil	Area	82	44	47	46	51
	Prodn.	47	25	13	14	16
	Yield	567	555	286	309	323
Cambodia	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	886	875	870	865	861
China	Area	26	22	19	16	21
	Prodn.	40	37	32	27	36
	Yield	1539	1682	1684	1688	1714
Ecuador	Area	2	2	2	2	2
	Prodn.	3	3	3	3	3
	Yield	1500	1500	1530	1562	1548
Ethiopia	Area	7	6	6	7	7
	Prodn.	11	10	9	11	11
	Yield	1510	1576	1615	1655	1694
Haiti	Area	3	3	3	3	3
	Prodn.	2	2	2	2	2
	Yield	585	588	590	592	594
India	Area	1089	1037	808	824	751
	Prodn.	1752	1376	1376	1568	1197
	Yield	1609	1327	1704	1902	1593
Indonesia	Area	3	4	4	4	4
	Prodn.	2	2	2	2	2

Country	Unit	2015	2016	2017	2018	2019
Kenya	Yield	469	429	392	406	415
	Area	13	13	14	14	14
	Prodn.	3	3	3	3	4
Madagascar	Yield	231	231	214	214	286
	Area	8	8	8	8	8
	Prodn.	3	3	3	3	3
Mexico	Yield	355	355	357	358	359
	Area	1	7	2	0.1	0.03
	Prodn.	2	9	3	0.3	0.1
Morocco	Yield	1787	1408	1967	2765	3500
	Area	0.3	0.3	0.3	0.3	0.3
	Prodn.	0.2	0.2	0.2	0.2	0.2
Mozambique	Yield	599	600	605	607	609
	Area	202	207	213	219	224
	Prodn.	75	78	80	83	85
Myanmar	Yield	373	374	376	378	380
	Area	16	16	16	16	16
	Prodn.	13	13	13	13	13
Pakistan	Yield	817	814	813	815	822
	Area	2	2	2	2	1
	Prodn.	2	2	2	2	1
Paraguay	Yield	1031	1035	1035	1030	1125
	Area	6	6	6	6	6
	Prodn.	8	6	7	7	6
South Africa	Yield	1333	1000	1167	1167	1000
	Area	9	9	9	9	9
	Prodn.	6	6	7	7	7
Sudan	Yield	731	739	744	749	754
	Area	2	2	2	2	2
	Prodn.	1	1	1	1	1
Syrian Arab Republic	Yield	500	500	500	500	500
	Area	1	1	1	1	1
	Prodn.	2	2	2	2	2
Thailand	Yield	2301	2383	2470	2559	2649
	Area	0.6	1.3	1.3	2	2
	Prodn.	0.4	1.1	1.2	2	2
Togo	Yield	688	846	923	978	989
	Area	1.0	1.0	1.0	1.1	1.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
Uganda	Yield	82	82	81	81	81
	Area	3	3	3	3	3
	Prodn.	1	1	1	1	1
United Republic of Tanzania	Yield	333	333	333	333	333
	Area	6	6	6	6	7
	Prodn.	3	3	3	3	3
Viet Nam	Yield	500	500	500	500	429
	Area	8	8	8	8	8

Country	Unit	2015	2016	2017	2018	2019
Africa	Prodn.	7	7	7	7	7
	Yield	875	875	875	875	875
	Area	267	272	278	285	292
	Prodn.	108	110	112	116	120
	Yield	405	403	401	407	411
	Area	94	62	60	57	61
Americas	Prodn.	61	44	29	26	27
	Yield	649	722	480	461	438
	Area	1147	1092	861	874	806
Asia	Prodn.	1819	1441	1436	1623	1261
	Yield	1586	1319	1669	1857	1565
	Area	--	0.1	0.2	0.1	0.5
Europe	Prodn.	--	0.0	0.1	0.1	0.3
	Yield	--	582	722	1350	682
	Area	1508	1426	1199	1216	1159
World	Prodn.	1988	1595	1577	1765	1408
	Yield	1318	1118	1315	1452	1215

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

9.3 All India Area, Production and Yield of Castor

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Castor over Total Area under Oilseeds
2015-16	1061	1752	1652	4
2016-17	808	1376	1704	3
2017-18	824	1568	1902	3
2018-19	751	1197	1593	
2019-20	1046	1842	1761	

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

9.4 State-wise Area, Production and Yield of Castor in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	51	33	32	37	38
	Prodn.	29	16	21	15	26
	Yield	569	485	655	415	684
Arunachal Pradesh	Area	0.4	0.2	0.2	0.7	0.2
	Prodn.	0.2	0.1	0.1	0.7	0.1
	Yield	571	529	570	908	575
Assam	Area	0.9	0.7	0.8	0.7	0.7
	Prodn.	0.4	0.4	0.4	0.3	0.3
	Yield	462	473	467	455	452
Bihar	Area	0.04	0.08	0.02	0.09	0.09

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	0.04	0.07	0.02	0.08	0.08
	Yield	953	875	1000	965	966
	Area	714	541	585	522	737
Gujarat	Prod.	1413	1121	1333	944	1432
	Yield	1979	2072	2276	1809	1944
	Area	0.2	1	1	2	4
Haryana	Prod.	0.3	2	1	1	4
	Yield	1300	1300	980	778	1028
	Area	3.22	0.16	0.15	0.04	0.06
Jharkhand	Prod.	1.30	0.07	0.06	0.03	0.03
	Yield	404	438	376	632	594
	Area	9	9	7	3	4
Karnataka	Prod.	5	5	5	2	4
	Yield	556	556	677	605	970
	Area	5	14	9	1	7
Madhya Pradesh	Prod.	2	6	5	0.4	3
	Yield	400	429	556	373	390
	Area	21	7	6	13	11
Maharashtra	Prod.	5	2	1	4	3
	Yield	238	304	236	291	305
	Area	0.1	0.1	0.1	0.1	0.1
Meghalaya	Prod.	0.1	0.01	0.1	0.1	0.1
	Yield	903	143	1000	903	903
	Area	0.3	0.3	0.4	0.4	0.4
Nagaland	Prod.	0.2	0.2	0.2	0.2	0.2
	Yield	667	676	686	667	667
	Area	10	9	8	7	7
Odisha	Prod.	7	6	5	5	4
	Yield	632	631	632	634	625
	Area	191	142	142	141	204
Rajasthan	Prod.	270	191	168	208	327
	Yield	1410	1338	1178	1477	1598
	Area	6	5	4	5	5
Tamil Nadu	Prod.	2	1	1	1	2
	Yield	311	312	312	312	312
	Area	48	45	28	20	28
Telangana	Prod.	17	26	26	15	37
	Yield	354	578	937	762	1310
	Area	0.2	--	--	--	--
Uttarakhand	Prod.	0.1	--	--	--	--
	Yield	556	--	--	--	--
	Area	0.1	0.1	0.1	0.02	--
West Bengal	Prod.	0.1	0.0	0.1	0.01	--
	Yield	750	667	750	590	--
	Area	--	--	--	--	--
Others	Prod.	--	--	--	--	--
	Yield	--	--	--	--	--

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
India	Area	1061	808	824	751	1046
	Prod.	1752	1376	1568	1197	1842
	Yield	1652	1704	1902	1593	1761

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

9.5 District-wise Area, Production and Yield of Castor in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Andhra Pradesh						
Ananthapur	Area	11	10	15	12	17
	Prod.	10	3	9	6	7
	Yield	941	307	572	514	424
Chittoor	Area	0.1	0.1	0.1	0.3	0.1
	Prod.	0.1	0.0	0.1	0.1	0.1
	Yield	547	468	636	427	695
Guntur	Area	1	0.0	0.8	0.5	0.2
	Prod.	2	0.0	1.5	0.3	0.2
	Yield	1294	558	1936	535	749
Kadapa	Area	1.0	0.7	0.7	0.5	0.8
	Prod.	1.0	0.5	0.5	0.2	0.6
	Yield	953	648	709	491	781
Kurnool	Area	34	20	13	20	17
	Prod.	14	11	9	7	17
	Yield	408	539	719	372	969
Prakasam	Area	4	2	2	3	3
	Prod.	2	1	1	1	1
	Yield	545	531	378	287	491
SPSR Nellore	Area	-	-	0.02	0.01	-
	Prod.	-	-	0.02	0.002	-
	Yield	-	-	783	250	-
Srikakulam	Area	-	-	-	-	0.001
	Prod.	-	-	-	-	0.001
	Yield	-	-	-	-	1000
Visakhapatnam	Area	0.002	0.002	-	-	-
	Prod.	0.002	0.001	-	-	-
	Yield	1000	500	-	-	-
Vizianagarm	Area	-	-	0.001	0.001	0.001
	Prod.	-	-	0.001	0	0.001
	Yield	-	-	1000	0	1000
West Godavari	Area	-	0.002	-	-	-
	Prod.	-	0.001	-	-	-
	Yield	-	500	-	-	-
Assam						
Baksa	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Barpeta	Yield	650	700	647	667	
	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.004	
	Yield	615	615	667	444	
Bongaigaon	Area	0.007	0.007	0.007	0.007	
	Prod.	0.005	0.004	0.004	0.003	
	Yield	714	571	571	429	
Cachar	Area	0.001	0.001	0.001	0.001	
	Prod.	0.001	0.001	0.001	0.001	
	Yield	1000	1000	1000	1000	
Chirang	Area	0.009	0.013	0.003	0.008	
	Prod.	0.005	0.008	0.002	0.004	
	Yield	556	615	667	500	
Dhemaji	Area	0.03	0.02	0.02	0.001	
	Prod.	0.02	0.01	0.01	0.001	
	Yield	700	458	455	1000	
Dhubri	Area	0.002	0.01	0.01	0.02	
	Prod.	0.001	0.01	0.01	0.01	
	Yield	500	833	833	571	
Dhubri	Area	0.002	0.012	0.006	0.006	
	Prod.	0.001	0.010	0.005	0.004	
	Yield	500	833	833	667	
Dibrugarh	Area	0.003	0.004	0.003	-	
	Prod.	0.001	0.002	0.001	-	
	Yield	333	500	333	-	
Dima Hasao	Area	0.05	0.05	0.05	0.05	
	Prod.	0.02	0.02	0.02	0.02	
	Yield	458	447	458	396	
Goalpara	Area	0.01	0.01	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	429	417	476	455	
Golaghat	Area	0.03	0.03	0.03	0.03	
	Prod.	0.02	0.02	0.02	0.02	
	Yield	667	613	655	679	
Hailakandi	Area	-	-	0.005	0.005	
	Prod.	-	-	0.001	0.003	
	Yield	-	-	200	600	
Jorhat	Area	0.02	0.02	0.03	0.03	
	Prod.	0.01	0.01	0.01	0.02	
	Yield	533	563	520	517	
Kamrup	Area	0.007	0.007	0.006	0.004	
	Prod.	0.003	0.003	0.003	0.002	
	Yield	429	429	500	500	
Karbi Anglong	Area	0.4	0.4	0.4	0.4	
	Prod.	0.2	0.2	0.1	0.1	
	Yield	393	390	392	395	
Karimganj		0.001	0.001	0.001	0.001	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
		0.001	0.001	0.001	0.001	
		1000	1000	1000	1000	
Kokrajhar	Area	0.08	0.08	0.06	0.06	
	Prod.	0.05	0.05	0.04	0.04	
	Yield	573	588	581	587	
Lakhimpur	Area	0.06	0.04	0.03	0.03	
	Prod.	0.03	0.02	0.02	0.02	
	Yield	455	452	563	613	
Marigaon	Area	0.005	0.004	0.005	0.005	
	Prod.	0.003	0.002	0.002	0.002	
	Yield	600	500	400	400	
Nagaon	Area	0.004	0.006	0.010	0.003	
	Prod.	0.002	0.002	0.004	0.002	
	Yield	500	333	400	667	
Nalbari		0.001	0.001	0.001	0.001	
		0.001	0.001	0.001	0.001	
		1000	1000	1000	1000	
Sivasagar	Area	0.005	0.003	0.001	0.002	
	Prod.	0.003	0.003	0.001	0.002	
	Yield	600	1000	1000	1000	
Sonitpur	Area	0.007	0.009	0.009	0.008	
	Prod.	0.003	0.003	0.003	0.004	
	Yield	429	333	333	500	
Tinsukia	Area	0.004	-	0.003	0.002	
	Prod.	0.002	-	0.001	0.001	
	Yield	500	-	333	500	
Udalguri	Area	-	-	0.05	0.04	
	Prod.	-	-	0.03	0.02	
	Yield	-	-	620	405	
Bihar						
Bhagalpur	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	875	1000	1000	1000	
Gaya	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Madhepura	Area	0.004	0.004	0.009	0.008	
	Prod.	0.004	0.004	0.009	0.008	
	Yield	1000	1000	1000	1000	
Madhubani	Area	0.003	0.001	0.003	0.001	
	Prod.	0.003	0.001	0.003	0.001	
	Yield	1000	1000	1000	1000	
Samastipur	Area	0.03	-	-	0.00	
	Prod.	0.03	-	-	0.00	
	Yield	963	-	-	1000	
Sitamarhi	Area	-	0.1	-	0.1	
	Prod.	-	0.1	-	0.1	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	954	-	956	
Chhattisgarh						
Baloda Bazar	Area	-	-	0.003	-	
	Prod.	-	-	0.001	-	
	Yield	-	-	333	-	
Bastar	Area	0.002	0.003	-	-	
	Prod.	0.001	0.001	-	-	
	Yield	500	333	-	-	
Bilaspur	Area	-	0.10	-	0.01	
	Prod.	-	0.03	-	0.002	
	Yield	-	276	-	333	
Dhamtari	Area	0.004	-	-	-	
	Prod.	0.001	-	-	-	
	Yield	250	-	-	-	
Durg	Area	-	-	-	0.04	
	Prod.	-	-	-	0.02	
	Yield	-	-	-	444	
Gariyaband	Area	0.003	-	-	-	
	Prod.	0.001	-	-	-	
	Yield	333	-	-	-	
Junjgir-Champa	Area	0.03	0.007	0.003	0.003	
	Prod.	0.01	0.002	0.001	0.001	
	Yield	333	286	333	333	
Kabirdham	Area	0.007	-	-	0	
	Prod.	0.002	-	-	0	
	Yield	286	-	-	0	
Mungeli	Area	0.004	0.005	-	-	
	Prod.	0.001	0.001	-	-	
	Yield	250	200	-	-	
Rajnandgaon	Area	-	-	-	0.003	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	333	
Gujarat						
Ahmadabad	Area	58	44	50	55	1
	Prod.	87	71	91	101	1
	Yield	1501	1611	1819	1853	1808
Amreli	Area	1	1	1	1	0.007
	Prod.	2	3	2	1	0.008
	Yield	1742	2586	1992	1020	1294
Anand	Area	0.3	0.6	0.5	0.6	0.005
	Prod.	0.7	1.0	1.0	1.0	0.009
	Yield	1948	1539	2193	1808	1944
Aravalli	Area	34	19	27	22	0.2
	Prod.	58	35	100	33	0.3
	Yield	1726	1823	3645	1504	1327
Banas Kantha	Area	141	102	112	60	1
	Prod.	264	220	361	172	2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Bharuch	Yield	1874	2167	3222	2869	2396
	Area	3	4	3	3	0.01
	Prod.	4	6	10	3	0.01
Bhavnagar	Yield	1354	1650	3133	1241	1319
	Area	2	0.0	0.2	0.2	0.001
	Prod.	3	0.1	0.4	0.3	0.002
Botad	Yield	1230	2061	2538	1810	1944
	Area	0.1	0.1	0.1	0.1	-
	Prod.	0.2	0.1	0.4	0.3	-
Chhotaudepur	Yield	1978	2068	2541	1805	-
	Area	5	1	3	4	0.001
	Prod.	10	3	5	7	0.002
Devbhumi Dwarka	Yield	1927	2237	1876	1662	2100
	Area	1	1	0.4	0.1	0.001
	Prod.	2	1	1.1	0.1	0.001
Dohad	Yield	1570	1805	2959	1813	2041
	Area	0.2	-	0.2	0.2	-
	Prod.	0.4	-	0.4	0.3	-
Gandhinagar	Yield	1981	-	2541	1808	-
	Area	23	24	28	25	0.3
	Prod.	54	54	71	62	0.6
Gir Somnath	Yield	2387	2235	2495	2466	2331
	Area	0.2	0.1	0.1	0.2	0.001
	Prod.	0.4	0.2	0.4	0.5	0.002
Jamnagar	Yield	2163	2165	2431	2244	1944
	Area	9	8	7	5	0.04
	Prod.	18	31	27	7	0.12
Junagadh	Yield	2113	3690	3818	1365	2942
	Area	1	0.5	0.2	0.8	0.005
	Prod.	3	0.9	0.6	1.5	0.009
Kachchh	Yield	3220	1893	2539	1809	1944
	Area	76	77	99	41	0.1
	Prod.	190	181	250	30	0.2
Kheda	Yield	2507	2353	2512	727	1892
	Area	8	5	7	9	1
	Prod.	15	8	12	17	2
Mahesana	Yield	1842	1544	1686	1776	1559
	Area	84	66	70	87	1
	Prod.	202	155	172	193	2
Mahisagar	Yield	2395	2341	2456	2213	2390
	Area	3	1	1	3	0.04
	Prod.	3	1	1	3	0.06
Morbi	Yield	1160	1101	1788	1317	1748
	Area	11	10	6	5	0.2
	Prod.	30	28	18	10	0.4
Narmada	Yield	2794	2770	2918	1811	2030
	Area	0.4	0.2	0.2	0.3	0.001

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	0.8	0.5	0.5	0.5	0.001
	Yield	2060	2074	2541	1809	1944
	Area	4	3	5	1	0.04
Panch Mahals	Prod.	5	4	7	2	0.07
	Yield	1221	1463	1460	1519	1525
	Area	100	82	70	59	1
Patan	Prod.	188	156	154	113	2
	Yield	1882	1893	2201	1917	1723
	Area	3	0.7	0.8	0.2	-
Porbandar	Prod.	7	2	2	1	-
	Yield	2522	2369	2410	2213	-
	Area	8	12	9	9	0.1
Rajkot	Prod.	10	21	25	12	0.1
	Yield	1246	1785	2870	1310	1512
	Area	32	17	19	22	0.3
Sabar Kantha	Prod.	65	33	44	50	1
	Yield	2029	1893	2300	2219	2248
	Area	0.1	0.1	0.1	0.2	0.001
Surat	Prod.	0.2	0.1	0.2	0.3	0.002
	Yield	1979	2067	2543	1807	1944
	Area	78	44	27	58	1
Surendranagar	Prod.	135	75	54	23	1
	Yield	1727	1720	2004	404	1802
	Area	0.9	0.2	0.2	0.1	0.001
Tapi	Prod.	1.7	0.3	0.4	0.2	0.003
	Yield	1982	2072	2541	1809	2514
	Area	28	20	38	49	0.5
Vadodara	Prod.	51	35	77	99	1
	Yield	1833	1806	2030	2037	1947
	Haryana					
Fatehabad	Area		0.1	0.1	-	
	Prod.		0.1	0.1	-	
	Yield		1000	1000	-	
Hisar	Area	0.1	0.9	0.4	-	
	Prod.	0.1	1.1	0.4	-	
	Yield	1000	1222	1000	-	
Sirsa	Area	0.4	0.8	0.4	-	
	Prod.	0.3	0.8	0.4	-	
	Yield	750	1000	1000	-	
Jharkhand						
Bokaro	Area	-	-	0.020	-	-
	Prod.	-	-	0.002	-	-
	Yield	-	-	100	-	-
Chatra	Area	0.03			-	-
	Prod.	0.03			-	-
	Yield	1040			-	-
Deoghar	Area	-	-	0.02	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	-	-	0.01	-	-
	Yield	-	-	400	-	-
	Area	0.2	0.02	0.004	0.02	0.02
Dumka	Prod.	0.1	0.01	0.002	0.01	0.01
	Yield	600	579	500	619	600
	Area	-	0.04	0.01	0.01	0.01
East Singhum	Prod.	-	0.01	0.004	0.003	0.01
	Yield	-	389	500	429	500
	Area	-	-	-	-	-
Giridih	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	1.00	-	-	-	-
Khunti	Prod.	0.4	-	-	-	-
	Yield	360	-	-	-	-
	Area	-	-	-	-	-
Latehar	Prod.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	0.01	0.003
Palamu	Prod.	-	-	-	0.01	0.001
	Yield	-	-	-	909	333
	Area	2	0.1	0.1	-	-
Simdega	Prod.	1	0.04	0.04	-	-
	Yield	400	400	400	-	-
	Area	-	0	-	-	-
West Singhbhum	Prod.	-	0	-	-	-
	Yield	-	400	-	-	-
	Area	-	-	-	0.002	0.01
Karnataka		-	-	-	0.001	0.01
Bagalkot	Prod.	-	-	-	500	889
	Yield	-	-	-	500	889
	Area	0.1	0.1	0.1	0.01	0.02
Bengalore Rural	Prod.	0.1	0.04	0.1	0.01	0.02
	Yield	528	494	639	583	900
	Area	0.02	0.02	0.004	0.001	-
Belgaum	Prod.	0.01	0.01	0.003	0.001	-
	Yield	522	478	750	1000	-
	Area	0.03	0.2	0.06	0.08	0.3
Bellary	Prod.	0.01	0.1	0.04	0.04	0.3
	Yield	519	494	650	573	920
	Area	0.1	0.10	0.07	0.01	0.01
Bengalore Urban	Prod.	0.1	0.05	0.04	0.00	0.01
	Yield	522	495	646	600	875
	Area	-	0.03	0.01	0.001	-
Bidar	Prod.	-	0.01	0.01	0.001	-
	Yield	-	481	615	1000	-
	Area	0.5	0.4	0.4	0.1	0.2
Chamarajanagar	Prod.	0.1	0.0	0.2	0.1	0.2

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	267	122	617	573	919
Chikballapur	Area	0.08	0.07	0.30	0.02	0.05
	Prod.	0.04	0.04	0.20	0.01	0.02
	Yield	524	500	644	238	360
Chikmagalur	Area	0.4	0.3	0.1	0.04	0.04
	Prod.	0.2	0.1	0.1	0.02	0.03
	Yield	526	495	648	568	919
Chitradurga	Area	0.8	0.7	0.2	0.3	0.5
	Prod.	0.5	1.2	0.2	0.2	0.5
	Yield	622	1781	779	574	922
Davangere	Area	0.04	0.21	0.08	0.01	0.02
	Prod.	0.02	0.10	0.05	0.01	0.02
	Yield	537	495	646	556	917
Gadag	Area	-	0.01	0.03	0.01	0.01
	Prod.	-	0.01	0.02	0.01	0.01
	Yield	-	500	643	538	900
Gulbarga	Area	-	0.01	-	0.003	0.01
	Prod.	-	0.01	-	0.002	0.01
	Yield	-	500	-	667	929
Hassan	Area	1	0.8	0.6	0.2	0.4
	Prod.	1	0.4	0.5	0.1	0.3
	Yield	692	504	930	573	920
Haveri	Area	0.01	0.009	0.002	0.005	0.003
	Prod.	0.01	0.004	0.001	0.003	0.003
	Yield	500	444	500	600	1000
Kolar	Area	0.06	0.06	0.06	0.03	0.004
	Prod.	0.03	0.03	0.04	0.02	0.004
	Yield	527	500	649	567	1000
Koppal	Area	0.9	1.4	0.3	0.2	0.7
	Prod.	0.2	0.7	0.2	0.1	0.7
	Yield	266	496	562	573	922
Mandya	Area	0.4	0.4	0.3	0.04	0.03
	Prod.	0.2	0.2	0.2	0.02	0.03
	Yield	526	496	642	583	909
Mysore	Area	0.9	0.8	1.0	0.8	0.2
	Prod.	0.5	0.2	0.7	0.4	0.2
	Yield	546	224	701	573	952
Raichur	Area	0.9	1.2	-	0.2	0.7
	Prod.	0.2	0.4	-	0.1	0.6
	Yield	233	353	-	571	922
Ramanagara	Area	0.9	1.3	2.1	0.1	0.2
	Prod.	0.7	0.9	1.7	0.1	0.2
	Yield	776	709	787	624	1028
Shimoga	Area	0.004	0.006	0.002	0.001	-
	Prod.	0.002	0.003	0.001	0.001	-
	Yield	500	500	500	1000	-
Tumkur	Area	2	2	2	1	1

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Yadgir	Prod.	1	0.2	0.5	0.3	0.6
	Yield	591	124	309	573	921
	Area	0.03	0.02	0.02	0.01	0.13
	Prod.	0.01	0.01	0.01	0.01	0.12
	Yield	538	478	667	571	923
Madhya Pradesh						
Agra Wala	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Alirajpur	Area	-	2	3	0.003	
	Prod.	-	1	2	0.001	
	Yield	-	500	550	333	
Balaghat	Area	-	-	0	0.003	
	Prod.	-	-	0	0.001	
	Yield	-	-	0	333	
Barwani	Area	-	-	1	1	
	Prod.	-	-	1	0.4	
	Yield	-	-	853	414	
Betul	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Burhanpur	Area	2			0.010	
	Prod.	1			0.002	
	Yield	500			200	
Chhindwara	Area	-	-	-	0.004	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	250	
Dhar	Area	-	-	-	0.03	
	Prod.	-	-	-	0.01	
	Yield	-	-	-	360	
Harda	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Hoshangabad	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Jhabua	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Katni	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Khandwa	Area	-	-	3	0.5	
	Prod.	-	-	1	0.1	
	Yield	-	-	271	308	
Khargone	Area	-	-	2	-	
	Prod.	-	-	2	-	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	-	873	-	
Mandsaur	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Neemuch	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Ratlam	Area	-	-	-	0.003	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	333	
Sagar	Area	-	-	-	0	
	Prod.	-	-	-	0	
	Yield	-	-	-	0	
Satna	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Shivpuri	Area	-	-	-	0.011	
	Prod.	-	-	-	0.004	
	Yield	-	-	-	364	
Sidhi	Area	-	-	-	0.001	
	Prod.	-	-	-	0.001	
	Yield	-	-	-	1000	
Tikamgarh	Area	-	-	-	0.005	
	Prod.	-	-	-	0.002	
	Yield	-	-	-	400	
Maharashtra						
Ahmednagar	Area	0.10	0.03	1.09	-	
	Prod.	0.03	0.01	0.22	-	
	Yield	300	333	202	-	
Akola	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Amravati	Area	-	0.1	0.1	-	
	Prod.	-	0.1	0.03	-	
	Yield	-	500	280	-	
Aurangabad	Area	0.1	0.7	1.7	0.2	
	Prod.	0.01	0.1	0.3	0.03	
	Yield	200	143	176	149	
Beed	Area	-	0.1	0.1	0.6	
	Prod.	-	0.04	0.01	0.1	
	Yield	-	400	100	160	
Bhandara	Area	0.7	0.1	-	-	
	Prod.	0.4	0.1	-	-	
	Yield	571	1000	-	-	
Buldhana	Area	0.030	-	0.1	0.3	
	Prod.	0.004	-	0.1	0.2	
	Yield	133	-	500	501	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Chandrapur	Area	0.03	-	0.03	-	
	Prod.	0.004	-	0.01	-	
	Yield	133	-	407	-	
Dhule	Area	0.1	0.009	-	0.03	
	Prod.	0.1	0.003	-	0.01	
	Yield	500	333	-	464	
Gadchiroli	Area	-	-	0.10	-	
	Prod.	-	-	0.02	-	
	Yield	-	-	230	-	
Hingoli	Area	4	1	1	0.3	
	Prod.	0.4	0.1	0.2	0.1	
	Yield	91	167	250	331	
Jalgaon	Area	1	-	0	1	
	Prod.	0.3	-	0	0.3	
	Yield	231	-	0	300	
Jalna	Area	0.1	0.1	0.1	0.1	
	Prod.	0.03	0.02	0.01	0.02	
	Yield	300	200	100	140	
Kolhapur	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Latur	Area	0.6	0.5	0.3	0.6	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	167	200	333	210	
Nagpur	Area	0.2	0.2	0.1	0.1	
	Prod.	0.04	0.2	0.03	0.03	
	Yield	200	1000	310	255	
Nanded	Area	0.01	0.10	0	0.014	
	Prod.	0.001	0.04	0	0.003	
	Yield	100	400	0	214	
Nandurbar	Area	1.1	1.0	0.2	0.2	
	Prod.	0.2	0.3	0.1	0.04	
	Yield	182	300	500	251	
Nasikh	Area	0.9	0.9	0.3	2	
	Prod.	0.2	0.3	0.1	1	
	Yield	222	333	333	445	
Osmanabad	Area	0.7	1.8	0.7	2.0	
	Prod.	0.1	0.5	0.1	0.4	
	Yield	143	278	143	190	
Parbhani	Area	0.4	0.4	0.04	0.3	
	Prod.	0.04	0.1	0.01	0.1	
	Yield	100	232	250	267	
Pune	Area	0.10	-	0.10	0.003	
	Prod.	0.02	-	0.01	0.001	
	Yield	200	-	100	333	
Ratnagiri	Area	-	0.010	-	0.01	
	Prod.	-	0.005	-	0.004	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Yield	-	500	-	333	
Sangli	Area	0.30	-	0.03	0.04	
	Prod.	0.10	-	0.01	0.01	
	Yield	333	-	370	163	
Satara	Area	0.3	0.10	0.05	0.10	
	Prod.	0.1	0.03	0.01	0.02	
	Yield	333	300	208	196	
Sindhudurg	Area	0.01	0.03	-	-	
	Prod.	0.001	0.01	-	-	
	Yield	200	333	-	-	
Solapur	Area	0.03	0.30	0.10	3	
	Prod.	0.01	0.08	0.02	1	
	Yield	333	267	200	300	
Washim	Area	-	-	0.1	2	
	Prod.	-	-	0.02	0.5	
	Yield	-	-	150	300	
Yavatmal	Area	-	-	-	-	
	Prod.	-	-	-	-	
	Yield	-	-	-	-	
Meghalaya						
East Garo Hills	Area	0.02	0.02	0.02	0.02	
	Prod.	0.02	0.02	0.02	0.02	
	Yield	1000	1000	1000	1000	
North Garo Hills	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	833	833	833	833	
Ri Bhoi	Area	0.01	0.01	0.01	0.01	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	1667	1667	1667	1667	
South West Garo Hills	Area	0.02	0.02	0.02	0.02	
	Prod.	0.02	0.02	0.02	0.02	
	Yield	810	810	810	810	
West Garo Hills	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	706	706	706	706	
Nagaland						
Dimapur	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	625	667	778	778	
Kohima	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
	Yield	500	500	500	500	
Mokokchung	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.1	
	Yield	857	857	750	750	
Mon	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Peren	Yield	500	500	500	500	
	Area	0.04	0.04	0.04	0.04	
	Prod.	0.03	0.03	0.03	0.03	
Phek	Yield	750	750	750	750	
	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
Tuensang	Yield	500	500	500	500	
	Area	0.02	0.02	0.02	0.02	
	Prod.	0.01	0.01	0.01	0.01	
Wokha	Yield	500	500	500	500	
	Area	0.03	0.03	0.03	0.04	
	Prod.	0.02	0.02	0.02	0.02	
Zunheboto	Yield	667	667	667	500	
	Area	0.03	0.03	0.03	0.03	
	Prod.	0.02	0.02	0.02	0.02	
Rajasthan						
Ajmer	Area	0.3	0.1	0.1	0.2	
	Prod.	0.6	0.2	0.1	0.2	
	Yield	1852	2247	1022	1014	
Alwar	Area	0.002	-	-	0.005	
	Prod.	0.002	-	-	0.003	
	Yield	1000	-	-	600	
Banswara	Area	0.006	0.009	0.007	0.016	
	Prod.	0.002	0.004	0.003	0.006	
	Yield	333	444	429	375	
Barmer	Area	33	23	24	22	
	Prod.	38	16	33	29	
	Yield	1141	700	1378	1302	
Bharatpur	Area	0.01	0.02	0.02	0.01	
	Prod.	0.01	0.02	0.02	0.01	
	Yield	2400	1000	1000	1000	
Bhilwara	Area	0.06	0.03	0.02	0.04	
	Prod.	0.03	0.03	0.01	0.04	
	Yield	484	967	333	1000	
Bikaner	Area	0.1	0.1	0.1	0.3	
	Prod.	0.1	0.1	0.2	0.3	
	Yield	964	1204	1303	1063	
Bundi	Area	-	-	0.004	-	
	Prod.	-	-	0.004	-	
	Yield	-	-	1000	-	
Chittorgarh	Area	0	-	-	0.005	
	Prod.	0	-	-	0.005	
	Yield	0	-	-	1000	
Churu	Area	0.003	-	-	0.003	
	Prod.	0.004	-	-	0.006	
	Yield	1333	-	-	2000	

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Dholpur	Area	-	0.01	0.02	0.01	
	Prod.	-	0.01	0.02	0.01	
	Yield	-	1000	1000	1000	
Dungarpur	Area	0.2	0.2	0.2	0.1	
	Prod.	0.2	0.2	0.2	0.1	
	Yield	961	1000	1000	1000	
Ganganagar	Area	0.2	0.4	0.2	0.3	
	Prod.	0.4	0.9	0.5	0.6	
	Yield	1852	1979	2602	2100	
Hanumangarh	Area	1	2	2	4	
	Prod.	2	5	4	8	
	Yield	1966	2678	2549	2245	
Jaipur	Area	0.01	0.001	-	-	
	Prod.	0.01	0.001	-	-	
	Yield	556	1000	-	-	
Jaisalmer	Area	5	4	5	4	
	Prod.	2	1	9	9	
	Yield	300	298	1996	1967	
Jalore	Area	70	50	49	42	
	Prod.	133	94	89	83	
	Yield	1894	1861	1816	1984	
Jhunjhunu	Area	0.05	0.01	0.02	0.04	
	Prod.	0.05	0.01	0.01	0.02	
	Yield	978	714	611	512	
Jodhpur	Area	35	26	25	18	
	Prod.	17	13	12	9	
	Yield	482	500	498	500	
Nagaur	Area	0.07	0.02	0.03	0.05	
	Prod.	0.06	0.02	0.04	0.04	
	Yield	954	1267	1121	816	
Pali	Area	5	3	3	6	
	Prod.	3	2	1	6	
	Yield	610	502	515	982	
Rajsamand	Area	0.001	0.004	0.007	0.004	
	Prod.	0.003	0.004	0.007	0.005	
	Yield	3000	1000	1000	1250	
Sirohi	Area	40	32	35	43	
	Prod.	74	58	17	63	
	Yield	1831	1796	489	1449	
Tonk	Area	0.02	0.01	0.02	0.04	
	Prod.	0.01	0.004	0.01	0.02	
	Yield	611	444	533	488	
Udaipur	Area	0.1	0.1	0.1	0.1	
	Prod.	0.1	0.1	0.1	0.05	
	Yield	932	849	1000	818	
Tamil Nadu						
Ariyalur	Area	0.03	0.04	0.05	0.04	0.18

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	0.01	0.01	0.02	0.01	0.06
	Yield	324	326	340	342	330
	Area	0.02	0.02	0.02	0.01	0.03
Coimbatore	Prod.	0.01	0.01	0.01	0.00	0.01
	Yield	348	353	400	364	355
	Area	0.003	-	0.008	0.07	0.01
Cuddalore	Prod.	0.002	-	0.006	0.05	0.01
	Yield	667	-	750	690	714
	Area	0.4	0.1	0.3	0.2	0.2
Dharmapuri	Prod.	0.1	0.02	0.1	0.1	0.1
	Yield	343	338	344	343	344
	Area	0.04	0.02	0.01	0.02	0.01
Dindigul	Prod.	0.01	0.01	0.00	0.01	0.01
	Yield	368	350	400	381	357
	Area	0.4	0.3	0.3	0.5	0.4
Erode	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	298	305	307	299	298
	Area	-	-	-	-	0
Kanniyakumari	Prod.	-	-	-	-	0
	Yield	-	-	-	-	0
	Area	0.01	0.01	0.03	0.02	0.02
Karur	Prod.	0.00	0.004	0.01	0.01	0.01
	Yield	400	444	448	417	400
	Area	1.2	0.8	0.9	1.1	0.6
Krishnagiri	Prod.	0.4	0.2	0.3	0.4	0.2
	Yield	331	319	329	321	328
	Area	0.03	0.02	0.04	0.01	0.01
Madurai	Prod.	0.01	0.01	0.01	0.01	0.004
	Yield	353	375	361	357	400
	Area	1	2	1	1	1
Namakkal	Prod.	0.4	0.5	0.4	0.4	0.4
	Yield	295	293	297	291	294
	Area	0.1	0.1	0.2	0.1	0.3
Perambalur	Prod.	0.04	0.04	0.06	0.04	0.1
	Yield	291	307	300	298	300
	Area	-	-	0.001	0	0
Pudukkottai	Prod.	-	-	0.001	0	0
	Yield	-	-	1000	0	0
	Area	0	0	-	-	0
Ramanathapuram	Prod.	0	0	-	-	0
	Yield	0	0	-	-	0
	Area	0.9	0.9	0.6	0.6	1.2
Salem	Prod.	0.3	0.3	0.2	0.2	0.4
	Yield	304	310	308	306	306
	Area	0.001	0.006	-	0.002	0.001
Sivaganga	Prod.	0	0.002	-	0.001	0
	Yield	0	333	-	500	0

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Thanjavur	Area	-	0	0.005	-	0
	Prod.	-	0	0.002	-	0
	Yield	-	0	400	-	0
Theni	Area	0.1	0.1	0.1	0.1	0.1
	Prod.	0.04	0.03	0.02	0.04	0.03
	Yield	279	330	338	336	302
Thiruvarur	Area	-	-	0.03	-	-
	Prod.	-	-	0.01	-	-
	Yield	-	-	286	-	-
Thruvallur	Area	0.002	0	0.028	-	0.003
	Prod.	0.001	0	0.008	-	0.001
	Yield	500	0	286	-	333
Thoothukudi	Area	0.010	0.003	0.002	0.005	0
	Prod.	0.003	0.001	0.001	0.001	0
	Yield	300	333	500	200	0
Tiruchirapalli	Area	0.3	0.2	0.4	0.3	0
	Prod.	0.1	0.1	0.1	0.1	0
	Yield	365	351	377	360	363
Tirunelveli	Area	0.007	-	-	-	0
	Prod.	0.002	-	-	-	0
	Yield	286	-	-	-	333
Tiruppur	Area	0.04	0.03	0.04	0.06	0.05
	Prod.	0.01	0.01	0.01	0.02	0.01
	Yield	279	290	295	291	283
Tiruvannamalai	Area	0.01	0.004	0.01	-	-
	Prod.	0.003	0.002	0.003	-	-
	Yield	429	500	375	-	-
Tuticorin	Area	0.010	0.003	0.002	-	-
	Prod.	0.003	0.001	0.001	-	-
	Yield	300	333	500	-	-
Vellore	Area	0.4	0.3	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
	Yield	373	373	376	375	327
Villupuram	Area	0.04	0.01	0.01	0.02	0.04
	Prod.	0.03	0.01	0.01	0.01	0.01
	Yield	684	625	667	650	324
Virudhunagar	Area	-	0.01	0.01	0.02	0.05
	Prod.	-	0.001	0.003	0.004	0.01
	Yield	-	200	300	211	229
Telangana						
Adilabad	Area	0.1	0.1	0.1	0.02	0.01
	Prod.	0.02	0.1	0.1	0.02	0.01
	Yield	356	596	932	1278	1250
Janagoan	Area	-	0.21	0.003	0.003	0.01
	Prod.	-	0.12	0.003	0.002	0.01
	Yield	-	593	1000	1500	1300
Jugulamba	Area	-	14	6	3	3

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	-	8	6	2	3
	Yield	-	599	1058	1302	1233
	Area	-	0.003	0.002	-	0.06
Kamareddy	Prod.	-	0.002	0.002	-	0.08
	Yield	-	667	1000	-	1305
	Area	0.07	0.10	-	-	-
Karimnagar	Prod.	0.04	0.04	-	-	-
	Yield	576	364	-	-	-
	Area	-	0.03	0.03	0.02	0.06
Komaram Bheem Asifabad	Prod.	-	0.02	0.03	0.01	0.07
	Yield	-	593	929	1286	1309
	Area	46	20	14	4	8
Mahabubnagar	Prod.	16	12	12	3	7
	Yield	358	599	910	1379	838
	Area	0.8	0.01	-	0.01	0.09
Medak	Prod.	0.3	0.004	-	0.01	0.12
	Yield	358	667	-	1333	1308
	Area	-	0.002	-	0.005	0.004
Medchal	Prod.	-	0.001	-	0.004	0.005
	Yield	-	500	-	1250	1250
	Area	-	3	1	1	2
Nagarkurnool	Prod.	-	2	1	0.4	5
	Yield	-	599	1031	2169	1933
	Area	0.2	0.3	0.001	0.009	0.1
Nalgonda	Prod.	0.03	0.1	0.001	0.007	0.2
	Yield	114	242	1000	1286	1309
	Area	-	-	-	7	8
Narayanapet	Prod.	-	-	-	5	12
	Yield	-	-	-	1379	1593
	Area	0.004	-	-	-	-
Nizambad	Prod.	0.002	-	-	-	-
	Yield	500	-	-	-	-
	Area	-	0.03	0.02	0.01	0.02
Rajanna	Prod.	-	0.02	0.02	0.004	0.03
	Yield	-	581	917	1250	1318
	Area	0.6	1.1	1.1	0.4	0.2
Ranga Reddy	Prod.	0.3	0.5	0.6	0.2	0.1
	Yield	514	426	537	2102	390
	Area	-	0.02	0.04	0.02	0.003
Sangareddy	Prod.	-	0.01	0.04	0.02	0.004
	Yield	-	591	951	1294	1333
	Area	-	0.4	0.1	0.1	0.1
Siddipet	Prod.	-	0.2	0.1	0.1	0.1
	Yield	-	590	938	1314	1302
	Area	-	0.002	-	-	-
Suryapet	Prod.	-	0.001	-	-	-
	Yield	-	500	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Vikarabad	Area	-	0.004	-	-	0.1
	Prod.	-	0.002	-	-	0.2
	Yield	-	500	-	-	1310
Wanaparthy	Area	-	-	-	4	6
	Prod.	-	-	-	4	9
	Yield	-	-	-	1081	1501
Warangal	Area	0.4	-	-	-	0.001
	Prod.	0.1	-	-	-	0.001
	Yield	219	-	-	-	1000
Warangal Urban	Area	-	6	6	-	-
	Prod.	-	3	6	-	-
	Yield	-	599	938	-	-
Yadadri	Area	-	0.4	0.08	0.02	0.04
	Prod.	-	0.09	0.08	0.02	0.05
	Yield	-	239	940	1333	1317
West Bengal						
Jhargram	Area	-	-	-	0.02	-
	Prod.	-	-	-	0.01	-
	Yield	-	-	-	579	-
Medinipur West	Area	0.1	0.1	-	-	-
	Prod.	0.03	0.04	-	-	-
	Yield	607	629	-	-	-

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

10. Safflower

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10.1 World Area, Production and Yield of Safflower

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Production	Yield
2015	1054	825	783
2016	1171	948	810
2017	864	738	854
2018	657	611	929
2019	653	591	905

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

10.2 Area, Production and Yield of Safflower in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Argentina	Area	44	80	26	35	29
	Prod.	29	52	18	28	24
	Yield	648	645	673	800	849
Australia	Area	6	6	6	6	6
	Prod.	3	4	4	4	4
	Yield	583	593	593	593	594
China	Area	23	22	22	22	23
	Prod.	33	33	33	33	33
	Yield	1447	1463	1464	1466	1468
Ethiopia	Area	7	7	8	6	8
	Prod.	7	8	10	8	10
	Yield	1008	1181	1202	1239	1266
India	Area	175	144	144	82	46
	Prod.	90	53	94	55	25
	Yield	514	368	651	673	537
Iran	Area	4	5	5	5	5
	Prod.	5	6	6	6	6
	Yield	1218	1304	1334	1323	1325
Kazakhstan	Area	235	223	297	280	263
	Prod.	149	167	225	214	200
	Yield	634	749	756	766	760
Kyrgyzstan	Area	14	14	13	13	12
	Prod.	14	11	12	12	12
	Yield	984	779	891	978	997
Mexico	Area	128	66	45	27	28
	Prod.	126	122	70	59	52
	Yield	985	1852	1565	2197	1856
Russian Federation	Area	240	430	149	55	107
	Prod.	154	284	101	25	81
	Yield	642	661	678	460	759
Spain	Area	4	6	7	--	--
	Prod.	3	4	5	--	--

Country	Unit	2015	2016	2017	2018	2019
Tajikistan	Yield	839	759	751	--	--
	Area	1	2	2	3	5
	Prod.	1	2	2	4	9
Turkey	Yield	1059	948	830	1392	1825
	Area	43	39	27	25	16
	Prod.	70	58	50	35	22
Ukraine	Yield	1636	1474	1826	1417	1380
	Area	0.2	0.2	0.2	0.2	0.2
	Prod.	0.1	0.1	0.1	0.1	0.1
United Republic of Tanzania	Yield	507	512	507	509	512
	Area	26	26	27	27	28
	Prod.	14	15	15	16	16
United States of America	Yield	550	553	561	570	578
	Area	64	62	59	63	62
	Prod.	97	99	80	107	88
Uzbekistan	Yield	1509	1605	1359	1694	1426
	Area	39	38	26	8	16
	Prod.	29	31	15	4	9
Africa	Yield	737	821	570	525	533
	Area	33	33	35	34	35
	Prod.	22	23	25	24	26
Americas	Yield	652	680	708	698	725
	Area	237	208	130	125	118
	Prod.	252	272	168	194	164
Asia	Yield	1064	1313	1292	1553	1388
	Area	534	488	537	437	386
	Prod.	391	361	436	364	316
Europe	Yield	732	740	811	833	820
	Area	244	436	156	55	107
	Prod.	157	288	106	25	81
Oceania	Yield	645	662	681	460	759
	Area	6	6	6	6	6
	Prod.	3	4	4	4	4
World	Yield	583	593	593	593	594
	Area	1054	1171	864	657	653
	Prod.	825	948	738	611	591
	Yield	783	810	854	929	905

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

10.3 All India Area, Production and Yield of Safflower

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Year	Area	Production	Yield	% Area Covered under Safflower over Total Area under Oilseeds
2015-16	128	53	416	0.5
2016-17	144	94	651	1
2017-18	82	55	673	0.3

Year	Area	Production	Yield	% Area Covered under Safflower over Total Area under Oilseeds
2018-19	46	25	537	
2019-20	52	44	843	

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

10.4 State-wise Area, Production and Yield of Safflower in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	-	-	-	--	1
	Prodn.	-	-	-	--	0.5
	Yield	-	-	-	--	490
Arunachal Pradesh	Area	-	0.2	0.2	--	0.3
	Prodn.	-	0.2	0.2	--	0.2
	Yield	-	982	973	--	973
Bihar	Area	0.1	0.1	0.1	0.09	0.09
	Prodn.	0.09	0.09	0.08	0.07	0.07
	Yield	802	813	818	811	812
Chhattisgarh	Area	1	0.7	0.3	0.2	0.1
	Prodn.	0.3	0.2	0.1	0.1	0.08
	Yield	300	286	297	406	409
Gujarat	Area	-	-	-	--	--
	Prodn.	-	-	-	--	--
	Yield	-	-	-	--	--
Jharkhand	Area	-	0.5	2	0.7	0.3
	Prodn.	-	0.2	1	0.4	0.1
	Yield	-	524	554	583	491
Karnataka	Area	54	32	34	16	26
	Prodn.	30	22	27	9	25
	Yield	563	688	818	617	972
Madhya Pradesh	Area	10	30	1	--	--
	Prodn.	5	15	1	--	--
	Yield	500	500	1000	--	--
Maharashtra	Area	57	76	39	25	22
	Prodn.	13	52	21	11	14
	Yield	228	691	548	475	691
Odisha	Area	0.3	0.3	0.4	0.5	0.3
	Prodn.	0.2	0.2	0.2	0.3	0.1
	Yield	590	600	608	600	600
Telangana	Area	4	4	4	3	2
	Prodn.	3	3	2	1	2
	Yield	750	750	567	605	1105
West Bengal	Area	1	0.5	1	0.01	--
	Prodn.	1	0.4	1	0	--
	Yield	1000	882	1000	700	--
Others	Area	-	-	-	--	--
	Prodn.	-	-	-	--	--

State		2015-16	2016-17	2017-18	2018-19	2019-20
	Yield	-	-	-	--	--
	Area	127	144	82	46	52
India	Prodn.	52	94	55	25	44
	Yield	416	651	673	537	843

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

10.5 District-wise Area, Production and Yield of Safflower in India

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Andhra Pradesh						
	Area	0.16	0.03	-	0.09	0.50
Anantapur	Prodn.	0.12	0.01	-	0.01	0.2
	Yield	765	250	-	154	491
	Area	0.03	0.01	-	0.23	0.12
Kadapa	Prodn.	0.02	0.01	-	0.04	0.06
	Yield	786	1000	-	161	487
	Area	0.1	0.1	0.02	0.07	0.09
Kurnool	Prodn.	0.1	0.1	0.01	0.01	0.04
	Yield	579	736	650	155	494
	Area	-	-	-	-	0.01
Prakasam	Prodn.	-	-	-	-	0.003
	Yield	-	-	-	-	429
	Area	-	-	-	0.03	-
Visakhapatnam	Prodn.	-	-	-	0.004	-
	Yield	-	-	-	143	-
Bihar						
	Area	-	0.004	0.002	-	-
Bhojpur	Prodn.	-	0.003	0.002	-	-
	Yield	-	750	1000	-	-
	Area	0.1	0.1	0.1	0.1	-
Darbhanga	Prodn.	0.1	0.1	0.1	0.1	-
	Yield	798	810	814	807	-
	Area	-	-	-	-	-
Samastipur	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
Chhattisgarh						
	Area	0.01	0.02	0.04	-	-
Balod	Prodn.	0.001	0.007	0.004	-	-
	Yield	200	318	108	-	-
	Area	0.1	0.1	0.011	0.004	-
Baloda Bazar	Prodn.	0.02	0.02	0.002	0.001	-
	Yield	232	321	182	250	-
	Area	0.08	0.04	0.06	0.01	-
Bemetara	Prodn.	0.03	0.01	0.02	0.01	-
	Yield	321	351	339	429	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Bilaspur	Area	0.01	0.01	0.01	0.01	
	Prodn.	0.01	0.004	0.002	0.003	
	Yield	417	400	250	600	
Dhamtari	Area	0.002	0.01	0.01	0.02	
	Prodn.	0.001	0.004	0.004	0.01	
	Yield	500	286	308	350	
Durg	Area	0.08	0.01	0.01	0.02	
	Prodn.	0.02	0.003	0.001	0.003	
	Yield	232	300	200	167	
Janjgir-Champa	Area	0.02	0.02	0.01	0.01	
	Prodn.	0.007	0.005	0.004	0.003	
	Yield	304	333	286	429	
Kabirdham	Area	0.003	-	-	-	
	Prodn.	0.001	-	-	-	
	Yield	333	-	-	-	
Korba	Area	-	-	-	0.02	
	Prodn.	-	-	-	0.01	
	Yield	-	-	-	333	
Mahasamund	Area	-	-	-	0.003	
	Prodn.	-	-	-	0.001	
	Yield	-	-	-	333	
Mungeli	Area	0.2	0.02	0.09	0.01	
	Prodn.	0.09	0.01	0.03	0.003	
	Yield	416	412	297	600	
Raigarh	Area	0.01	0.01	0.01	0.01	
	Prodn.	0.002	0.002	0.002	0.001	
	Yield	286	222	250	143	
Raipur	Area	0.03	0.02	0.03	0.03	
	Prodn.	0.01	0.01	0.01	0.01	
	Yield	353	412	379	379	
Rajnandgaon	Area	0.19	0.01	0.19	0.08	
	Prodn.	0.07	0.01	0.09	0.04	
	Yield	344	429	476	444	
Jharkhand						
Deoghar	Area	-	0.05	0.01	-	-
	Prodn.	-	0.03	0.01	-	-
	Yield	-	556	556	-	-
Dumka	Area	-	0.07	0.08	0.02	0.2
	Prodn.	-	0.04	0.05	0.01	0.1
	Yield	-	577	580	522	500
East Singhbhum	Area	-	0.01	0.03	0.05	0.05
	Prodn.	-	0.01	0.02	0.02	0.02
	Yield	-	500	500	511	460
Giridih	Area	-	0.012	0.013	0.002	0.01
	Prodn.	-	0.004	0.005	0.001	0.004
	Yield	-	333	385	500	400
Godda	Area	-	0.3	0.5	0.3	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prod.	-	0.1	0.3	0.2	-
	Yield	-	450	681	630	-
	Area	-	-	0.1	-	-
Hazaribagh	Prod.	-	-	0.03	-	-
	Yield	-	-	483	-	-
	Area	-	0.003	0.37	0.04	0.01
Khunti	Prod.	-	0.001	0.18	0.02	0.01
	Yield	-	333	500	409	500
	Area	-	-	0.1	-	-
Koderma	Prod.	-	-	0.1	-	-
	Yield	-	-	696	-	-
	Area	-	-	0.002	0.002	-
Pakur	Prod.	-	-	0.001	0.001	-
	Yield	-	-	500	500	-
	Area	-	-	0	-	-
Palamu	Prod.	-	-	0	-	-
	Yield	-	-	0	-	-
	Area	-	-	0.04	-	-
Ramgarh	Prod.	-	-	0.02	-	-
	Yield	-	-	463	-	-
	Area	-	-	0.3	-	-
Ranchi	Prod.	-	-	0.1	-	-
	Yield	-	-	502	-	-
	Area	-	-	-	0.4	-
Saraikela Kharsawan	Prod.	-	-	-	0.2	-
	Yield	-	-	-	579	-
	Area	-	0.03	0.2	0.01	0.02
Simdega	Prod.	-	0.03	0.3	0.01	0.01
	Yield	-	1154	1151	1200	632
	Area	-	0.01	-	-	-
West Singhbhum	Prod.	-	0.01	-	-	-
	Yield	-	429	-	-	-
	Karnataka					
Bagalkot	Area	1.1	1.1	1.3	0.3	0.6
	Prod.	0.3	0.1	0.7	0.1	0.4
	Yield	236	73	539	269	731
Bangalore Rural	Area	-	-	-	0.001	0.001
	Prod.	-	-	-	0.001	0.001
	Yield	-	-	-	1000	1000
Belgaum	Area	2	2	1	1	1
	Prod.	1	1	2	1	1
	Yield	271	570	1079	765	717
Bellary	Area	0.1	0.01	0.01	0.9	0.6
	Prod.	0.1	0.002	0.01	0.3	0.3
	Yield	389	286	1000	359	554
Bidar	Area	12	17	13	5	9
	Prod.	11	16	17	5	12

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Bijapur	Yield	909	958	1302	948	1314
	Area	14	0.2	0.9	2	2
	Prodn.	1	0.1	0.4	1	1
Chamarajanagar	Yield	77	518	434	407	531
	Area	-	-	-	0.01	0.01
	Prodn.	-	-	-	0.01	0.01
Chikballapur	Yield	-	-	-	615	917
	Area	-	-	-	0.01	0.01
	Prodn.	-	-	-	0.01	0.01
Chikmagalur	Yield	-	-	-	1000	1000
	Area	-	-	-	0.001	0.002
	Prodn.	-	-	-	0.001	0.002
Chitradurga	Yield	-	-	-	1000	1000
	Area	2	0	0.7	1	1
	Prodn.	1	0	0.4	1	1
Davangere	Yield	510	0	548	526	643
	Area	0.01	-	-	0.02	0.01
	Prodn.	0.004	-	-	0.01	0.01
Dharwad	Yield	400	-	-	611	923
	Area	13	5	8	3	5
	Prodn.	3	1	5	1	4
Gadag	Yield	273	133	618	403	986
	Area	2	3	3	2	4
	Prodn.	1	0	1	0.5	2
Gulbarga	Yield	368	127	486	258	604
	Area	4	3	2	0.5	2
	Prodn.	2	3	2	0.4	2
Hassan	Yield	421	961	901	938	843
	Area	-	-	-	0.004	0.002
	Prodn.	-	-	-	0.002	0.002
Haveri	Yield	-	-	-	500	1000
	Area	0.9	0.2	0.4	0.3	0.5
	Prodn.	0.3	0.1	0.2	0.2	0.3
Koppal	Yield	288	500	578	730	639
	Area	1.1	0.8	1.3	0.6	1.1
	Prodn.	0.2	0.1	0.7	0.2	0.6
Mandya	Yield	230	66	551	314	548
	Area	-	-	-	0.003	0.009
	Prodn.	-	-	-	0.002	0.008
Mysore	Yield	-	-	-	667	889
	Area	-	-	-	0.02	0.01
	Prodn.	-	-	-	0.01	0.01
Raichur	Yield	-	-	-	571	900
	Area	0.6	0.4	1.3	0.3	0.5
	Prodn.	0.2	0.1	0.7	0.1	0.4
Ramanagara	Yield	397	198	557	215	749
	Area	-	-	-	0.003	0.002

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Shimoga	Prodn.	-	-	-	0.002	0.002
	Yield	-	-	-	667	1000
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	-	-	-	0.04	0.02
Tumkur	Prodn.	-	-	-	0.03	0.02
	Yield	-	-	-	581	913
	Area	0.5	0.1	0.1	0.1	0.2
Yadgir	Prodn.	0.1	0.1	0.0	0.1	0.1
	Yield	268	614	691	554	350
	Area	-	-	-	-	-
Madhya Pradesh						
Anuppur	Area	1	2	-	-	-
	Prodn.	0	1	-	-	-
	Yield	0	600	-	-	-
Ashoknagar	Area	-	0.1	-	-	-
	Prodn.	-	0.1	-	-	-
	Yield	-	625	-	-	-
Balaghat	Area	1	4	0.3	0	-
	Prodn.	0	3	0.2	0	-
	Yield	0	743	567	0	-
Barwani	Area	-	0.1	0.6	-	0.001
	Prodn.	-	0.3	0.2	-	0.001
	Yield	-	4167	387	-	1000
Betul	Area	-	2	-	-	-
	Prodn.	-	1	-	-	-
	Yield	-	548	-	-	-
Bhind	Area	-	1	-	-	-
	Prodn.	-	1	-	-	-
	Yield	-	648	-	-	-
Bhopal	Area	-	0.10	-	-	-
	Prodn.	-	0.03	-	-	-
	Yield	-	300	-	-	-
Burhanpur	Area	-	-	0.1	-	-
	Prodn.	-	-	0.1	-	-
	Yield	-	-	1000	-	-
Chhatarpur	Area	1	1.8	-	-	-
	Prodn.	0	0.4	-	-	-
	Yield	0	200	-	-	-
Chhindwara	Area	-	1.4	-	-	-
	Prodn.	-	0.2	-	-	-
	Yield	-	107	-	-	-
Damoh	Area	-	0.5	-	-	-
	Prodn.	-	0.4	-	-	-
	Yield	-	729	-	-	-
Datia	Area	-	0.06	-	-	-
	Prodn.	-	0.02	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Dewas	Yield	-	333	-	-	-
	Area	-	0	-	0	-
	Prodn.	-	0	-	0	-
Dhar	Yield	-	0	-	0	-
	Area	-	0.01	-	0.004	-
	Prodn.	-	0.01	-	0.001	-
Dindori	Yield	-	1000	-	250	-
	Area	1	1.6	-	-	-
	Prodn.	0	0.2	-	-	-
Guna	Yield	0	104	-	-	-
	Area	-	0.02	-	-	-
	Prodn.	-	0.01	-	-	-
Gwalior	Yield	-	500	-	-	-
	Area	-	0.02	-	-	0
	Prodn.	-	0.004	-	-	0
Harda	Yield	-	200	-	-	333
	Area	-	0.010	-	-	-
	Prodn.	-	0.003	-	-	-
Hoshangabad	Yield	-	300	-	-	-
	Area	-	2	-	-	-
	Prodn.	-	1	-	-	-
Jabalpur	Yield	-	628	-	-	-
	Area	-	1	-	-	-
	Prodn.	-	1	-	-	-
Katni	Yield	-	620	-	-	-
	Area	-	2	-	-	-
	Prodn.	-	1	-	-	-
Khandwa	Yield	-	350	-	-	-
	Area	-	0.01	-	-	-
	Prodn.	-	0.01	-	-	-
Khandwa	Yield	-	1000	-	-	-
	Area	-	-	-	-	-
	Prodn.	-	-	-	-	-
Mandla	Yield	-	-	-	-	-
	Area	-	0.1	-	-	-
	Prodn.	-	0.1	-	-	-
Mandsaur	Yield	-	1000	-	-	-
	Area	-	0.1	-	-	-
	Prodn.	-	0.1	-	-	-
Morena	Yield	-	833	-	-	-
	Area	-	0.4	-	-	-
	Prodn.	-	0.3	-	-	-
Neemuch	Yield	-	690	-	-	-
	Area	-	0.1	-	-	-
	Prodn.	-	0.1	-	-	-
Panna	Yield	-	667	-	-	-
Panna	Area	-	0.2	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	-	0.2	-	-	-
	Yield	-	792	-	-	-
	Area	-	1	-	-	-
Raisen	Prodn.	-	1	-	-	-
	Yield	-	704	-	-	-
	Area	-	1	-	0	-
Ratlam	Prodn.	-	1	-	0	-
	Yield	-	657	-	0	-
	Area	-	0.2	-	-	-
Rewa	Prodn.	-	0.2	-	-	-
	Yield	-	1059	-	-	-
	Area	1	2	-	0.002	-
Sagar	Prodn.	0	0	-	0.001	-
	Yield	0	105	-	500	-
	Area	1	3	-	-	-
Shahdol	Prodn.	0	1	-	-	-
	Yield	0	447	-	-	-
	Area	-	1	-	-	-
Satna	Prodn.	-	0.1	-	-	-
	Yield	-	117	-	-	-
	Area	-	0.09	-	-	-
Shajapur	Prodn.	-	0.03	-	-	-
	Yield	-	333	-	-	-
	Area	-	0	-	-	-
Seoni	Prodn.	-	0	-	-	-
	Yield	-	833	-	-	-
	Area	-	-	-	0.002	-
Shajapur	Prodn.	-	-	-	0.001	-
	Yield	-	-	-	500	-
	Area	-	0.010	-	-	-
Sheopur	Prodn.	-	0.003	-	-	-
	Yield	-	300	-	-	-
	Area	-	0.04	-	-	0.007
Shivpuri	Prodn.	-	0.01	-	-	0.002
	Yield	-	250	-	-	286
	Area	-	0.2	-	-	-
Sidhi	Prodn.	-	0.2	-	-	-
	Yield	-	1176	-	-	-
	Area	-	0.1	-	-	-
Singrauli	Prodn.	-	0.1	-	-	-
	Yield	-	900	-	-	-
	Area	-	0.03	-	-	-
Tikamgarh	Prodn.	-	0.01	-	-	-
	Yield	-	333	-	-	-
	Area	-	0.01	-	-	-
Ujjain	Prodn.	-	0.01	-	-	-
	Yield	-	1000	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Umaria	Area	-	0.3	-	-	-
	Prodn.	-	0.4	-	-	-
	Yield	-	1129	-	-	-
Vidisha	Area	-	0.04	-	-	-
	Prodn.	-	0.01	-	-	-
	Yield	-	250	-	-	-
Maharashtra						
Ahmednagar	Area	0.6	0.4	0.1	-	-
	Prodn.	0.10	0.03	0.04	-	-
	Yield	167	75	400	-	-
Akola	Area	0.3	0.4	0.10	-	0.03
	Prodn.	0.2	0.2	0.04	-	0.01
	Yield	667	500	350	-	360
Amravati	Area	-	-	0.4	-	0.04
	Prodn.	-	-	0.2	-	0.02
	Yield	-	-	500	-	667
Aurangabad	Area	0.5	0.7	0.6	-	0.2
	Prodn.	0.1	0.3	0.6	-	0.1
	Yield	200	429	938	-	422
Beed	Area	2.1	4	3	0.02	0.4
	Prodn.	0.4	3	1	0.002	0.2
	Yield	186	679	432	83	541
Buldhana	Area	0.2	0.2	0.1	0.2	0.1
	Prodn.	0.1	0.1	0.1	0.1	0.1
	Yield	400	500	1000	789	1048
Dhule	Area	0	-	-	-	-
	Prodn.	0	-	-	-	-
	Yield	0	-	-	-	-
Hingoli	Area	11	10	6	5	3
	Prodn.	3	7	2	4	2
	Yield	259	722	436	649	605
Jalgaon	Area	-	0.1	-	-	-
	Prodn.	-	0.1	-	-	-
	Yield	-	455	-	-	-
Jalna	Area	0.9	0.1	-	0.6	0.9
	Prodn.	0.3	0.1	-	0.2	0.3
	Yield	278	1000	-	315	300
Latur	Area	15	25	9	6	6
	Prodn.	3	18	4	2	7
	Yield	223	728	467	295	1089
Nanded	Area	2	4	5	1	1
	Prodn.	0.3	4	4	0.2	0.4
	Yield	125	953	755	305	400
Nandurbar	Area	0.50	0.16	0.002	-	0.27
	Prodn.	0.10	0.07	0.001	-	0.10
	Yield	200	438	500	-	378
Nashik	Area	0.01	-	-	-	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
	Prodn.	0.003	-	-	-	-
	Yield	250	-	-	-	-
	Area	14	17	10	8	6
Osmanabad	Prodn.	3	11	7	4	3
	Yield	208	637	631	562	580
	Area	5	10	3	3	2
Parbhani	Prodn.	1	6	1	1	1
	Yield	180	649	480	437	462
	Area	-	-	-	-	0.03
Pune	Prodn.	-	-	-	-	0.02
	Yield	-	-	-	-	800
	Area	0	-	-	-	-
Ratnagiri	Prodn.	0	-	-	-	-
	Yield	0	-	-	-	-
	Area	2	0.4	0.5	0.4	0.3
Sangli	Prodn.	1	0.3	0.3	0.1	0.1
	Yield	337	750	600	254	269
	Area	0.1	0.1	0.1	0.1	0.1
Satara	Prodn.	0.04	0.1	0.1	0.02	0.03
	Yield	400	1000	1000	189	467
	Area	2	3	1	1	1
Solapur	Prodn.	1	2	0.4	0.3	1
	Yield	250	576	500	263	500
	Area	-	-	-	-	-
Wardha	Prodn.	-	-	-	-	-
	Yield	-	-	-	-	-
	Area	0.2	0.1	0.7	0.2	0.1
Washim	Prodn.	0.1	0.1	0.3	0.2	0.0
	Yield	250	1000	429	769	463
	Area	0	0.1	0.1	0.02	0.01
Yavatmal	Prodn.	0	0.1	0.1	0.02	0.002
	Yield	0	1000	1000	909	400
	Telangana					
Adilabad	Area	0.003	-	-	0.01	0.02
	Prodn.	0.002	-	-	0.01	0.02
	Yield	667	-	-	625	1125
Jogulamba	Area	-	-	-	-	0
	Prodn.	-	-	-	-	0
	Yield	-	-	-	-	1000
Kamareddy	Area	-	0.8	0.9	0.7	0.1
	Prodn.	-	0.6	0.2	0.3	0.1
	Yield	-	849	217	382	991
Mahaboobnagar	Area	0.3	0.2	0.1	-	0.002
	Prodn.	0.5	0.1	0.1	-	0.002
	Yield	1666	688	570	-	1000
Mancherial	Area	-	0.006	-	0.002	-
	Prodn.	-	0.004	-	0.001	-

State / District		2015-16	2016-17	2017-18	2018-19	2019-2020
Medak	Yield	-	667	-	500	-
	Area	2	0.05	0.04	0.01	0.01
	Prodn.	2	0.02	0.02	0.01	0.01
Narayanpet	Yield	693	413	556	583	1083
	Area	-	-	-	0.004	0.02
	Prodn.	-	-	-	0.002	0.02
Nirmal	Yield	-	-	-	500	1095
	Area	-	0.3	0.5	0.2	0.1
	Prodn.	-	0.2	0.3	0.2	0.1
Nizamabad	Yield	-	662	567	1133	1103
	Area	0.9	0.8	0.5	0.2	0.3
	Prodn.	0.2	0.7	0.4	0.5	0.6
Rangareddy	Yield	226	849	843	2213	2175
	Area	0.4	0.2	0.1	0.1	0.3
	Prodn.	0.3	0.2	0.1	0.04	0.4
Sangareddy	Yield	766	1019	565	603	1101
	Area	-	2	1	1	1
	Prodn.	-	1	1	0.4	0.4
Vikarabad	Yield	-	407	632	362	622
	Area	-	0.3	0.3	0.2	0.1
	Prodn.	-	0.3	0.3	0.1	0.1
West Bengal	Yield	-	1016	886	604	873
	Area	0.1	0.1	-	-	-
	Prodn.	0.1	0.1	-	-	-
Paraganas North	Yield	1087	1095	-	-	-
	Area	0.02	0.02	0.01	-	-
	Prodn.	0.01	0.01	0.01	-	-
Birbhum	Yield	429	450	846	-	-
	Area	0.001	0.002	-	-	-
	Prodn.	0.001	0.002	-	-	-
Dinajpur Dakshin	Yield	1000	1000	-	-	-
	Area	0.1	0.1	0.1	-	-
	Prodn.	0.1	0.1	0.1	-	-
Jalpaiguri	Yield	1323	1349	1127	-	-
	Area	0.3	0.3	-	-	-
	Prodn.	0.2	0.2	-	-	-
Medinipur West	Yield	789	789	-	-	-
	Area	0.003	0.007	0.008	0.006	-
	Prodn.	0.002	0.005	0.006	0.004	-
Purba Bardhaman	Yield	667	714	750	667	-
	Area	0.05	0.05	0.03	-	-
	Prodn.	0.04	0.04	0.02	-	-
Purulia	Yield	686	692	800	-	-

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

11. Cotton

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11.1 World Area, Production and Yield of Seed Cotton

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

	Area	Production	Yield
2015	31632	66247	2094
2016	30219	67637	2238
2017	34634	73653	2127
2018	32296	70650	2188
2019	38641	82589	2137

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

11.2 Area, Production and Yield of Seed Cotton in Major Countries of the World

(Area in '000 ha; Production in '000 tonnes, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Afghanistan	Area	42	51	32	40	49
	Prodn.	50	59	37	57	73
	Yield	1198	1155	1155	1455	1481
Albania	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	1108	1108	1108	1108	1109
Angola	Area	3	3	3	3	3
	Prodn.	6	6	6	6	5
	Yield	1833	1833	1833	1833	1838
Argentina	Area	456	377	253	319	333
	Prodn.	795	673	616	814	873
	Yield	1745	1787	2432	2549	2622
Australia	Area	197	280	519	485	303
	Prodn.	1274	1519	2151	2450	1627
	Yield	6468	5416	4148	5051	5361
Azerbaijan	Area	19	51	136	133	100
	Prodn.	35	89	208	234	295
	Yield	1884	1761	1527	1763	2950
Bangladesh	Area	17	17	34	37	24
	Prodn.	57	60	119	130	81
	Yield	3298	3460	3529	3471	3385
Benin	Area	307	419	530	600	717
	Prodn.	269	451	598	758	792
	Yield	878	1077	1128	1263	1105
Bolivia	Area	126	126	126	126	135
	Prodn.	117	117	117	117	119
	Yield	929	929	929	929	881
Brazil	Area	1033	996	928	1150	1627
	Prodn.	4007	3464	3843	4956	6893
	Yield	3880	3477	4141	4310	4236
Burkina Faso	Area	558	655	845	473	591
	Prodn.	769	785	844	482	724
	Yield	1378	1198	999	1019	1225

Country	Unit	2015	2016	2017	2018	2019
Burundi	Area	3	3	3	3	2
	Prodn.	2	2	2	2	2
	Yield	765	680	702	681	729
Cameroon	Area	220	224	185	240	250
	Prodn.	323	293	291	311	322
	Yield	1468	1308	1573	1296	1290
Central African Republic	Area	40	39	42	43	44
	Prodn.	22	19	20	21	21
	Yield	542	488	485	482	479
Chad	Area	290	315	120	120	140
	Prodn.	270	350	100	40	325
	Yield	931	1111	833	333	2319
China	Area	3767	3376	4845	3354	4815
	Prodn.	16830	16029	17130	18493	23505
	Yield	4468	4748	3536	5513	4881
Colombia	Area	25	20	11	12	18
	Prodn.	85	75	23	30	60
	Yield	3347	3850	2132	2541	3282
Costa Rica	Area	1	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	776	714	722	714	708
Côte d'Ivoire	Area	402	345	360	370	351
	Prodn.	450	310	328	365	356
	Yield	1119	899	911	987	1013
Democratic People's Republic of Korea	Area	20	20	20	20	20
	Prodn.	39	38	39	39	39
	Yield	1958	1970	1982	1991	2000
Democratic Republic of the Congo	Area	70	68	68	68	68
	Prodn.	30	29	29	29	28
	Yield	431	421	418	418	418
Ecuador	Area	3	2	3	3	3
	Prodn.	4	3	3	3	3
	Yield	1340	1334	1316	1312	1308
Egypt	Area	101	55	91	141	100
	Prodn.	320	170	300	489	305
	Yield	3163	3091	3297	3468	3050
Eswatini	Area	2	1	1	1	1
	Prodn.	1	1	1	1	1
	Yield	653	653	649	636	623
Ethiopia	Area	99	60	90	140	150
	Prodn.	130	115	130	140	155
	Yield	1313	1917	1444	1000	1031
Gambia	Area	2	1	1	1	1
	Prodn.	1	0.4	0.4	0.4	0.4
	Yield	346	357	354	352	349
Ghana	Area	16	15	14	13	13
	Prodn.	15	14	13	13	12

Country	Unit	2015	2016	2017	2018	2019
	Yield	926	936	945	951	956
Greece	Area	269	246	260	--	--
	Prodn.	818	739	809	--	--
	Yield	3036	3000	3109	--	--
Guatemala	Area	1	1	1	1	1
	Prodn.	2	1	2	2	2
	Yield	2788	2818	2854	2883	2914
Guinea	Area	44	46	46	47	48
	Prodn.	42	44	43	44	44
	Yield	968	956	938	924	910
Guinea-Bissau	Area	5	5	5	5	6
	Prodn.	5	6	6	6	6
	Yield	1113	1113	1066	1044	1023
Haiti	Area	2	2	2	2	2
	Prodn.	1	1	1	1	1
	Yield	487	498	505	512	520
Honduras	Area	2	2	2	2	2
	Prodn.	3	3	3	3	3
	Yield	1752	1776	1823	1823	1825
India	Area	11870	10830	12430	12350	16038
	Prodn.	15943	17308	17425	14657	18550
	Yield	1343	1598	1402	1187	1157
Indonesia	Area	6	5	4	5	4
	Prodn.	1	1	0.3	0.4	0.3
	Yield	124	203	92	68	74
Iran	Area	72	71	52	45	43
	Prodn.	175	161	146	113	106
	Yield	2443	2282	2800	2532	2441
Iraq	Area	22	27	0.2	0.03	--
	Prodn.	34	34	0.1	0.04	--
	Yield	1520	1238	396	1370	--
Israel	Area	10	8	7	6	9
	Prodn.	46	36	31	23	22
	Yield	4577	4293	4526	3609	2528
Kazakhstan	Area	99	110	135	133	131
	Prodn.	274	287	330	344	344
	Yield	2758	2616	2440	2592	2625
Kenya	Area	29	29	21	13	14
	Prodn.	16	16	15	6	6
	Yield	549	551	700	441	441
Kyrgyzstan	Area	14	17	21	23	24
	Prodn.	44	52	65	75	58
	Yield	3095	3142	3179	3242	2376
Lao People's Democratic Republic	Area	2	2	2	2	2
	Prodn.	6	7	7	7	6
	Yield	2929	3167	3523	3181	3086
Madagascar	Area	14	16	17	17	17

Country	Unit	2015	2016	2017	2018	2019
	Prodn.	15	15	16	16	16
	Yield	1053	930	933	929	931
	Area	123	78	41	44	68
Malawi	Prodn.	79	31	30	24	46
	Yield	645	401	719	543	676
	Area	545	655	704	698	738
Mali	Prodn.	514	647	729	657	711
	Yield	942	988	1036	940	963
	Area	133	104	212	241	207
Mexico	Prodn.	593	488	1009	1163	917
	Yield	4454	4675	4762	4833	4425
	Area	120	101	114	127	106
Mozambique	Prodn.	49	44	52	63	53
	Yield	410	432	457	496	501
	Area	225	202	184	193	168
Myanmar	Prodn.	482	438	369	337	289
	Yield	2145	2169	2009	1746	1720
	Area	2	2	2	2	2
Nicaragua	Prodn.	4	5	5	5	5
	Yield	2178	2450	2475	2445	2354
	Area	7	7	7	8	9
Niger	Prodn.	7	7	7	8	8
	Yield	1001	983	973	971	970
	Area	401	365	326	310	277
Nigeria	Prodn.	278	279	290	262	233
	Yield	691	763	890	845	843
	Area	2902	2489	2700	2373	2527
Pakistan	Prodn.	4872	5237	5855	4828	4495
	Yield	1679	2104	2168	2035	1779
	Area	13	12	10	9	18
Paraguay	Prodn.	15	14	14	19	27
	Yield	1176	1180	1400	2000	1500
	Area	27	18	8	21	20
Peru	Prodn.	70	45	23	44	58
	Yield	2605	2506	2860	2127	2974
	Area	31	20	21	22	17
Senegal	Prodn.	31	24	20	15	17
	Yield	1013	1200	956	696	1000
	Area	18	18	18	18	18
Somalia	Prodn.	7	7	7	7	7
	Yield	396	403	402	402	402
	Area	15	7	18	37	25
South Africa	Prodn.	51	27	42	102	73
	Yield	3291	3875	2351	2750	2956
	Area	63	61	63	0	0
Spain	Prodn.	193	166	199	0	0
	Yield	3048	2723	3152	0	0

Country	Unit	2015	2016	2017	2018	2019
Sudan	Area	86	66	173	192	197
	Prodn.	131	109	104	160	187
	Yield	1531	1640	601	834	948
Syrian Arab Republic	Area	35	39	23	40	48
	Prodn.	99	123	70	120	141
	Yield	2784	3169	3063	3006	2949
Tajikistan	Area	160	163	174	186	186
	Prodn.	270	285	387	300	403
	Yield	1692	1751	2222	1616	2171
Thailand	Area	10	16	19	23	24
	Prodn.	6	7	7	7	7
	Yield	543	438	362	297	294
Togo	Area	112	130	172	180	181
	Prodn.	81	113	117	137	117
	Yield	722	870	680	764	646
Tunisia	Area	3	2	1	1	1
	Prodn.	2	1	1	1	1
	Yield	628	592	538	500	454
Turkey	Area	434	416	501	519	478
	Prodn.	2050	2100	2450	2570	2200
	Yield	4724	5048	4886	4955	4604
Turkmenistan	Area	540	550	540	535	515
	Prodn.	764	600	691	618	582
	Yield	1414	1091	1279	1156	1130
Uganda	Area	65	74	96	80	90
	Prodn.	64	86	119	87	103
	Yield	977	1158	1240	1091	1144
United Republic of Tanzania	Area	450	320	340	400	420
	Prodn.	203	149	165	269	268
	Yield	452	467	484	674	638
United States of America	Area	3268	3848	4492	4130	4777
	Prodn.	8469	10092	12000	11077	12956
	Yield	2592	2623	2671	2682	2712
Uzbekistan	Area	1300	1265	1201	1108	1051
	Prodn.	3361	2959	2854	2286	2694
	Yield	2586	2339	2376	2062	2565
Venezuela	Area	7	4	8	5	3
	Prodn.	9	5	9	4	3
	Yield	1279	1315	1153	826	925
Viet Nam	Area	1	1	0.6	0.6	0.2
	Prodn.	2	1	0.4	0.3	0.1
	Yield	1172	1009	572	545	558
Yemen	Area	13	11	11	7	22
	Prodn.	14	12	12	7	23
	Yield	1071	1066	1065	1038	1042
Zambia	Area	127	130	105	107	89
	Prodn.	104	112	89	88	73

Country	Unit	2015	2016	2017	2018	2019
	Yield	819	863	848	825	817
Zimbabwe	Area	112	102	77	129	157
	Prodn.	43	33	73	106	107
	Yield	382	324	958	818	685
Africa	Area	4420	4376	4656	4655	4909
	Prodn.	4330	4296	4587	4715	5125
	Yield	980	982	985	1013	1044
Americas	Area	5099	5515	6059	6023	7149
	Prodn.	14176	14989	17670	18238	21921
	Yield	2780	2718	2916	3028	3066
Asia	Area	21581	19735	23072	21133	26279
	Prodn.	45454	45923	48232	45247	53915
	Yield	2106	2327	2091	2141	2052
Europe	Area	336	312	329	1	1
	Prodn.	1013	910	1013	1	1
	Yield	3019	2912	3081	1108	1109
Oceania	Area	197	280	519	485	303
	Prodn.	1274	1519	2151	2450	1627
	Yield	6468	5416	4148	5051	5361
World	Area	31632	30219	34634	32296	38641
	Prodn.	66247	67637	73653	70650	82589
	Yield	2094	2238	2127	2188	2137

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

11.3 All India Area, Production and Yield of Cotton Seed

(Area: in '000 ha; Production in '000 Bales 170 kg each; Yield in kg/ha)

Year	Area	Production	Yield
2015-16	12292	30005	415
2016-17	10826	32577	512
2017-18	12586	32805	443
2018-19	12614	28042	378
2019-20	13477	36065	455

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

11.4 State-Wise Area, Production and Yield of Cotton Seed

(Area: in '000 ha; Production in '000 Bales 170 kg each; Yield in kg/ha)

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Area	666	472.00	646	620	657
	Prod.	1888	1564.00	2087	1491	2508
	Yield	482	563	549	409	649
Gujarat	Area	2722	2382.00	2624	2660	2655
	Prod.	9400	8575.00	10187	6279	8617
	Yield	587	612	660	401	552
Haryana	Area	615	570.00	665	708	723

State/UT		2015-16	2016-17	2017-18	2018-19	2019-20
	Prod.	993	2041.00	1627	2013	2484
	Yield	274	609	416	483	584
	Area	642	510.00	547	718	817
Karnataka	Prod.	2000	1010.00	1844	1400	2330
	Yield	530	337	573	331	485
	Area	563	599.00	603	614	650
Madhya Pradesh	Prod.	1800	2050.69	1620	2329	1646
	Yield	544	582	457	645	430
	Area	4207	3800.40	4351	4218	4491
Maharashtra	Prod.	7500	10618.76	6094	6593	6639
	Yield	303	475	238	266	251
	Area	125	136.00	145	157	170
Odisha	Prod.	300	382.00	408	455	579
	Yield	408	478	478	493	579
	Area	339	285.00	291	268	248
Punjab	Prod.	750	1031.03	1283	1222	1206
	Yield	376	615	750	775	827
	Area	448	471.00	584	629	760
Rajasthan	Prod.	1214	1401.92	1893	2026	2788
	Yield	461	506	551	548	624
	Area	142	142.00	183	133	170
Tamil Nadu	Prod.	369	359.00	445	269	418
	Yield	442	430	413	344	418
	Area	1773	1409.00	1897	1839	2127
Telangana	Prod.	3661	3444.00	5195	3847	6833
	Yield	351	416	466	356	546
	Area	50	50.00	50	50	9
Others	Prod.	130	100.00	122	118	17
	Yield	442	340	415	401	321
	Area	12292	10826.40	12586	12614	13477
India	Prod.	30005	32577.41	32805	28042	36065
	Yield	415	512	443	378	455

Source: Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

12. Coconut

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12.2 State-wise Area, Production and Yield of Coconut.....	308

12.1 All India Area, Production and Yield of Coconut

(Area in '000 ha; Production in m.nuts; Yield in nuts per ha (Number))

Year	Area	Production	Yield
2015-2016	2088	22167	10614
2016-2017	2082	23904	11481
2017-2018	2097	23798	11350
2018-2019	2179	21384	9815

Source: Horticulture Division, Dept. of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, Government of India.

12.2 State-wise Area, Production and Yield of Coconut

(Area in '000 ha; Production in m.nuts; Yield in nuts per ha (Number))

State/UT		2015-16	2016-17	2017-18	2018-19
Andaman & Nicobar Islands	Area	--	--	--	--
	Prod.	--	--	--	--
	Yield	--	--	--	--
Andhra Pradesh	Area	104	115	100	118
	Prod.	1427	1378	1397	1596
	Yield	13732	11957	14038	13563
Arunachal Pradesh	Area	--	--	--	0.1
	Prod.	--	--	--	0.3
	Yield	--	--	--	4286
Assam	Area	20	21	20	25
	Prod.	133	153	168	173
	Yield	6720	7440	8444	6942
Bihar	Area	15	15	11	9
	Prod.	141	141	77	58
	Yield	9489	9469	6756	6618
Chhattisgarh	Area	2	1	2	2
	Prod.	31	9	11	11
	Yield	16508	5926	7091	7006
Daman and Diu	Area	--	--	--	--
	Prod.	--	--	--	--
	Yield	--	--	--	--
Goa	Area	--	--	--	--
	Prod.	--	--	--	--
	Yield	--	--	--	--
Gujarat	Area	23	24	25	27
	Prod.	313	337	241	260
	Yield	13706	13775	9670	9645
Karnataka	Area	526	514	518	615
	Prod.	5129	6773	6274	5123
	Yield	9744	13181	12102	8327
Kerala	Area	771	771	807	757
	Prod.	7429	7449	8452	7631
	Yield	9641	9664	10472	10083

State/UT		2015-16	2016-17	2017-18	2018-19
Lakshadweep	Area	--	--	--	--
	Prodn.	--	--	--	--
	Yield	--	--	--	--
Maharashtra	Area	28	21	27	43
	Prodn.	271	199	128	210
	Yield	9775	9514	4743	4845
Mizoram	Area	--	--	--	0.03
	Prodn.	--	--	--	0.15
	Yield	--	--	--	5000
Nagaland	Area	0.3	0.5	1.2	1.1
	Prodn.	3	3	9	9
	Yield	8091	5681	8000	8519
Odisha	Area	51	51	51	51
	Prodn.	328	342	342	342
	Yield	6451	6711	6712	6719
Puducherry	Area	--	--	--	--
	Prodn.	--	--	--	--
	Yield	--	--	--	--
Tamil Nadu	Area	460	461	441	437
	Prodn.	6171	6571	6020	5311
	Yield	13423	14251	13637	12144
Telangana	Area	--	1	--	0.5
	Prodn.	--	2	--	5
	Yield	--	4180	--	10400
Tripura	Area	7	5	5	5
	Prodn.	30	32	32	13
	Yield	4097	6991	6987	2742
West Bengal	Area	30	30	30	31
	Prodn.	374	375	378	384
	Yield	12658	12641	12484	12464
Others	Area	53	53	59	58
	Prodn.	388	142	269	259
	Yield	7351	2699	4601	4446
India	Area	2088	2082	2097	2179
	Prodn.	22167	23904	23798	21384
	Yield	10614	11481	11350	9815

Source: Horticulture Division, Dept. of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, Government of India.

13. Oil Palm

13.1 World Area, Production and Yield of Oil Palm	311
13.2 Area, Production and Yield of Oil Palm Fruit in Major Countries of the World	311

13.1 World Area, Production and Yield of Oil Palm

(Area in '000 ha; Production in '000 mt, Yield in kg/ha)

	Area	Production	Yield
2015	22661	335287	14796
2016	23361	330032	14128
2017	26967	400295	14844
2018	27680	403583	14580
2019	28313	410697	14506

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

13.2 Area, Production and Yield of Oil Palm Fruit in Major Countries of the World

(Area in '000 ha; Production in '000 mt, Yield in kg/ha)

Country	Unit	2015	2016	2017	2018	2019
Angola	Area	23	23	23	23	23
	Prodn.	280	280	280	281	281
	Yield	12102	12060	12055	12050	12044
Benin	Area	35	37	38	39	40
	Prodn.	602	637	669	701	733
	Yield	17390	17389	17683	17976	18270
Brazil	Area	140	136	115	162	177
	Prodn.	1585	1621	1687	2250	2583
	Yield	11315	11959	14656	13926	14556
Burundi	Area	9	9	9	9	9
	Prodn.	86	88	89	89	89
	Yield	9871	9932	9925	9916	9908
Cambodia	Area	15	15	15	15	15
	Prodn.	160	160	160	160	160
	Yield	11035	10929	10928	10848	10773
Cameroon	Area	142	146	149	152	155
	Prodn.	2088	2008	2129	2161	2165
	Yield	14707	13754	14285	14215	13971
Central African Republic	Area	1	1	1	1	0
	Prodn.	6	6	6	5	2
	Yield	9077	9091	8923	8774	9134
China	Area	50	50	50	50	50
	Prodn.	666	665	665	666	666
	Yield	13441	13371	13324	13277	13229
Colombia	Area	333	309	455	487	504
	Prodn.	6249	5612	7914	8268	8390
	Yield	18759	18155	17389	16969	16644
Congo	Area	12	12	12	12	13
	Prodn.	150	151	153	154	156
	Yield	12482	12442	12437	12432	12426
Costa Rica	Area	69	72	77	77	77
	Prodn.	816	1089	1096	1088	1082
	Yield	11754	15036	14257	14144	14101

Country	Unit	2015	2016	2017	2018	2019
Côte d'Ivoire	Area	274	317	349	333	315
	Prod.	1800	2019	2227	2169	2055
	Yield	6569	6372	6377	6521	6523
Democratic Republic of the Congo	Area	277	275	278	280	280
	Prod.	1820	1800	1820	1830	1835
	Yield	6579	6555	6551	6548	6544
Dominican Republic	Area	19	20	20	20	21
	Prod.	268	280	281	285	288
	Yield	14056	14022	13994	13971	13944
Ecuador	Area	290	264	260	224	201
	Prod.	4176	3124	3276	2786	2276
	Yield	14382	11841	12586	12439	11328
Equatorial Guinea	Area	4	4	4	4	4
	Prod.	36	36	36	36	36
	Yield	10143	10185	10200	10213	10228
Gabon	Area	5	5	5	6	6
	Prod.	21	21	21	21	20
	Yield	4390	4084	3840	3596	3352
Gambia	Area	4	4	4	4	4
	Prod.	35	35	35	35	35
	Yield	9994	9991	9992	9989	9990
Ghana	Area	349	349	362	382	374
	Prod.	2443	2443	2476	2647	2655
	Yield	6999	6999	6846	6932	7095
Guatemala	Area	145	150	169	177	188
	Prod.	2215	2463	2721	3222	3270
	Yield	15277	16420	16101	18203	17391
Guinea	Area	316	316	317	317	318
	Prod.	846	844	845	846	848
	Yield	2680	2670	2669	2668	2666
Guinea-Bissau	Area	10	10	10	10	10
	Prod.	81	81	81	81	81
	Yield	8464	8436	8434	8431	8429
Honduras	Area	155	175	180	190	200
	Prod.	1947	2046	2408	2495	2337
	Yield	12563	11690	13379	13134	11686
Indonesia	Area	10755	11201	14049	14327	14678
	Prod.	183365	190100	237317	240894	245633
	Yield	17050	16971	16892	16814	16735
Liberia	Area	17	17	18	18	18
	Prod.	173	175	177	176	176
	Yield	10043	10014	9990	9967	9943
Madagascar	Area	2	2	2	2	2
	Prod.	21	21	21	21	21
	Yield	11631	11637	11632	11619	11613
Malaysia	Area	4859	5001	5111	5189	5217
	Prod.	98344	86325	101741	98419	99065

Country	Unit	2015	2016	2017	2018	2019
	Yield	20238	17260	19907	18966	18990
	Area	55	59	66	73	86
Mexico	Prod.	666	755	874	984	1194
	Yield	12202	12886	13274	13504	13963
	Area	5	6	7	7	8
Nicaragua	Prod.	60	50	74	80	86
	Yield	11919	8410	10000	11013	10456
	Area	3230	3317	3558	3761	3935
Nigeria	Prod.	8300	8500	9100	9600	10025
	Yield	2570	2563	2558	2553	2548
	Area	5	5	4	3	3
Panama	Prod.	50	48	41	35	28
	Yield	10171	10153	10143	10135	10126
	Area	168	175	183	191	198
Papua New Guinea	Prod.	2307	2410	2500	2591	2682
	Yield	13727	13746	13668	13590	13512
	Area	16	16	16	17	17
Paraguay	Prod.	152	154	155	156	158
	Yield	9475	9468	9461	9455	9448
	Area	43	51	59	66	73
Peru	Prod.	684	736	852	921	913
	Yield	15862	14422	14453	13907	12530
	Area	60	60	60	63	63
Philippines	Prod.	433	440	475	500	499
	Yield	7238	7317	7904	7986	7946
	Area	2	2	2	2	2
Sao Tome and Principe	Prod.	17	17	18	18	18
	Yield	9526	9518	9515	9518	9515
	Area	12	12	12	12	13
Senegal	Prod.	129	133	137	141	145
	Yield	11159	11267	11351	11434	11518
	Area	30	30	32	33	34
Sierra Leone	Prod.	230	232	246	254	257
	Yield	7764	7711	7676	7641	7607
	Area	18	19	20	21	22
Solomon Islands	Prod.	265	276	287	298	309
	Yield	14740	14502	14349	14196	14043
	Area	1	1	1	1	1
Suriname	Prod.	1	1	1	1	1
	Yield	2000	1997	1997	1993	1993
	Area	648	623	797	856	896
Thailand	Prod.	11059	11420	14452	15535	16772
	Yield	17061	18338	18130	18139	18713
	Area	17	18	18	18	19
Togo	Prod.	149	153	155	157	159
	Yield	8543	8553	8552	8549	8547
United Republic of Tanzania	Area	5	5	5	5	6

Country	Unit	2015	2016	2017	2018	2019
	Prod.	74	74	75	75	76
	Yield	13910	13840	13797	13752	13709
	Area	40	45	47	43	42
Venezuela	Prod.	431	502	523	453	435
	Yield	10865	11279	11103	10523	10466
	Area	4773	4909	5206	5421	5577
Africa	Prod.	19388	19754	20793	21496	21868
	Yield	4062	4024	3994	3965	3921
	Area	1316	1308	1477	1547	1596
Americas	Prod.	19301	18482	21904	23024	23042
	Yield	14666	14134	14832	14882	14436
	Area	16386	16950	20081	20500	20919
Asia	Prod.	294026	289110	354810	356174	362796
	Yield	17944	17057	17669	17374	17343
	Area	186	194	203	212	220
Oceania	Prod.	2572	2685	2787	2889	2991
	Yield	13825	13820	13735	13650	13565
	Area	22661	23361	26967	27680	28313
World	Prod.	335287	330032	400295	403583	410697
	Yield	14796	14128	14844	14580	14506

Source: <http://faostat3.fao.org> (As on 31st May, 2021)

14. State Profiles of Oilseeds in India

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14.1 State-wise Area, Production and Yield of Total Oilseeds

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Andhra Pradesh	Kharif	Area	801	1047	729	782	652
		Prodn.	651	435	874	366	665
		Yield	813	416	1198	468	1021
	Rabi	Area	114	97	96	75	103
		Prodn.	222	229	222	138	235
		Yield	1947	2361	2318	1842	2285
	Total	Area	915	1144	825	857	755
		Prodn.	873	664	1096	504	901
		Yield	954	581	1328	589	1193
Arunachal Pradesh	Kharif	Area	-	7	7	7	7
		Prodn.	-	7	8	8	8
		Yield	-	1126	1125	1122	1125
	Rabi	Area	-	28	28	28	28
		Prodn.	-	28	30	28	29
		Yield	-	1019	1019	1019	1020
	Total	Area	-	35	35	35	35
		Prodn.	-	36	40	37	37
		Yield	-	1040	1040	1040	1041
Assam	Kharif	Area	19	18	19	18	18
		Prodn.	12	12	12	11	12
		Yield	644	648	637	642	651
	Rabi	Area	291	299	295	290	292
		Prodn.	202	192	188	186	180
		Yield	697	643	639	642	617
	Total	Area	310	317	314	308	310
		Prodn.	215	204	200.6	198	192
		Yield	694	643	638.0	642	619
Bihar	Kharif	Area	5	5	3	4	22
		Prodn.	5	5	3	4	18
		Yield	1050	1070	1045	1058	813
	Rabi	Area	114	103	99	96	90
		Prodn.	121	120	120	121	106
		Yield	1059	1160	1213	1255	1175
	Total	Area	119	108	102	100	113
		Prodn.	126	125	124	125	124
		Yield	1059	1155	1208	1248	1102
Chhattisgarh	Kharif	Area	227	214	196	200	166
		Prodn.	119	139	98	123	138
		Yield	523	649	500	617	832
	Rabi	Area	71	82	69	60	54

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Dadra & Nagar Haveli		Prodn.	30	30	24	22	20
		Yield	428	372	353	372	378
	Total	Area	298	296	266	260	221
		Prodn.	149	169	122	145	159
		Yield	501	572	461	561	719
	Kharif	Area	-	0.0	0.0	0.1	0.0
		Prodn.	-	0.0	0.0	0.0	0.0
		Yield	-	347	283	571	333
	Rabi	Area	-	-	0.0	--	0.0
		Prodn.	-	-	0.0	--	0.0
		Yield	-	-	500	--	500
	Total	Area	-	0.0	0.0	0.1	0.0
		Prodn.	-	0.0	0.0	0.0	0.0
		Yield	-	366	361	571	353
	Kharif	Area	-	-	-	--	--
Prodn.		-	-	-	--	--	
Yield		-	-	-	--	--	
Delhi	Rabi	Area	-	4	4	4	4
		Prodn.	-	4	5	5	4
		Yield	-	1248	1260	1259	1260
	Total	Area	-	4	4	4	4
		Prodn.	-	4	5	4	5
		Yield	-	1248	1260	1259	1260
Kharif	Area	-	0.3	0.3	0.2	0.0	
	Prodn.	-	0.9	0.7	0.5	0.0	
	Yield	-	2557	2325	2381	2764	
Goa	Rabi	Area	-	2	1.3	0.2	0.2
		Prodn.	-	3	3	0.5	0.4
		Yield	-	2302	2243	2381	2500
	Total	Area	-	2	1.5	0.4	0.2
		Prodn.	-	4	4	1.0	0.4
		Yield	-	2352	2258	2381	2503
Gujarat	Kharif	Area	2320	2512	2485	2321	2635
		Prodn.	3777	4332	5364	3308	6176
		Yield	1628	1725	2159	1425	2344
	Rabi	Area	248	264	273	238	232
		Prodn.	402	457	495	425	476
		Yield	1621	1731	1814	1780	2049
Total	Area	2568	2776	2758	2560	2867	
	Prodn.	4179	4789	5860	3733	6653	
	Yield	1627	1725	2125	1458	2320	
Haryana	Kharif	Area	8	16	5	7	9
		Prodn.	6	20	5	5	9
		Yield	751	1177	1017	809	998

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Himachal Pradesh	Rabi	Area	514	510	554	618	650
		Prodn.	823	945	1117	1271	1166
		Yield	1602	1853	2017	2056	1793
	Total	Area	522	526	559	625	659
		Prodn.	829	964	1122	1277	1175
		Yield	1589	1832	2008	2042	1783
	Kharif	Area	3.	3	1	1	1
		Prodn.	2	2	1	1	1
		Yield	584	494	1427	1217	1216
	Rabi	Area	9	10	9	9	9
		Prodn.	5	5	5	5	5
		Yield	498	485	524	529	556
	Total	Area	12	13	10	10	10
		Prodn.	6	6	6	6	6
		Yield	520	487	590	591	619
Kharif	Area	4	7	4	4	4	
	Prodn.	2	4	2	2	2	
	Yield	410	508	407	410	409	
Jammu & Kashmir	Rabi	Area	51	48	47	47	45
		Prodn.	31	25	38	54	41
		Yield	613	525	793	1149	897
	Total	Area	54	55	52	52	49
		Prodn.	33	29	39	56	42
		Yield	599	523	760	1086	859
Kharif	Area	38	47	56	56	36	
	Prodn.	26	40	47	44	34	
	Yield	700	864	845	778	923	
Jharkhand	Rabi	Area	221	314	361	278	332
		Prodn.	150	224	250	185	255
		Yield	678	712	692	665	768
	Total	Area	259	361	417	334	368
		Prodn.	177	264	297	228	288
		Yield	681	732	713	684	784
Kharif	Area	856	999	825	745	848	
	Prodn.	496	591	696	628	858	
	Yield	579	592	843	843	1012	
Karnataka	Rabi	Area	430	294	274	204	166
		Prodn.	254	215	275	154	182
		Yield	590	731	1003	756	1095
	Total	Area	1286	1293	1099	949	1014
		Prodn.	750	806	971	783	1040
		Yield	583	623	883	824	1025
Kerala	Kharif	Area	1	1	1	0	0
		Prodn.	1	1	0	0	0

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Madhya Pradesh	Rabi	Yield	1049	1052	900	612	627
		Area	-	4	-	0	0
		Prod.	-	0	-	0	0
	Total	Yield	-	0	-	1250	1255
		Area	1	5	1	1	0
		Prod.	1	1	0	0	0
	Kharif	Yield	1049	125	900	702	733
		Area	6593	6125	5723	5902	6739
		Prod.	5445	7226	5873	7215	5362
	Rabi	Yield	826	1180	1026	1222	796
		Area	743	861	919	752	731
		Prod.	726	998	1076	1080	1090
	Total	Yield	977	1159	1171	1436	1490
		Area	7336	6986	6642	6654	7470
		Prod.	6171	8224	6949	8294	6452
Kharif	Yield	841	1177	1046	1247	864	
	Area	4007	4151	4001	4377	4409	
	Prod.	2291	4892	4098	4830	5033	
Rabi	Yield	572	1178	1024	1104	1142	
	Area	197	257	133	81	117	
	Prod.	145	222	108	55	144	
Total	Yield	736	862	812	677	1226	
	Area	4204	4409	4134	4457	4526	
	Prod.	2436	5114	4206	4885	5177	
Kharif	Yield	579	1160	1017	1096	1144	
	Area	-	5	5	5	7	
	Prod.	-	4	5	4	6	
Rabi	Yield	-	857	907	900	869	
	Area	-	33	33	33	26	
	Prod.	-	28	28	28	21	
Total	Yield	-	858	865	849	840	
	Area	-	38	38	38	32	
	Prod.	-	32	33	32	27	
Kharif	Yield	-	858	870	856	846	
	Area	-	4	4	4	4	
	Prod.	-	6	6	6	6	
Rabi	Yield	-	1331	1347	1350	1354	
	Area	-	10	10	10	10	
	Prod.	-	9	9	9	9	
Total	Yield	-	931	932	933	933	
	Area	-	14	14	14	14	
	Prod.	-	15	15	15	15	
Mizoram	Yield	-	1051	1057	1059	1060	
	Area	-	2	2	2	2	

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Nagaland		Prodn.	-	2	2	2	2
		Yield	-	1164	1139	1320	1248
	Rabi	Area	-	0	0	1	1
		Prodn.	-	0	0	0	0
		Yield	-	1003	1002	774	714
	Total	Area	-	2	2	2	2
		Prodn.	-	3	2	3	3
		Yield	-	1140	1113	1195	1123
	Kharif	Area	-	30	30	31	32
		Prodn.	-	35	35	36	37
		Yield	-	1161	1163	1163	1160
	Rabi	Area	-	35	36	36	36
		Prodn.	-	34	34	34	34
		Yield	-	955	954	953	953
	Total	Area	-	66	66	66	67
		Prodn.	-	69	69	69	71
		Yield	-	1050	1050	1050	1050
	Kharif	Area	113	115	98	88	86
Prodn.		49	59	46	42	42	
Yield		432	514	472	471	493	
Rabi	Area	77	63	51	49	52	
	Prodn.	71	62	47	49	57	
	Yield	925	984	922	1008	1108	
Total	Area	190	178	149	137	137	
	Prodn.	120	121	93	91	100	
	Yield	632	681	625	662	725	
Kharif	Area	-	0	0	0	0	
	Prodn.	-	1	1	1	1	
	Yield	-	2471	2467	2450	1933	
Rabi	Area	-	0	0	0	0	
	Prodn.	-	0	0	0	0	
	Yield	-	2800	3000	4000	3000	
Total	Area	-	0	0	0	0	
	Prodn.	-	1	1	1	1	
	Yield	-	2511	2504	2488	1981	
Kharif	Area	6	4	4	4	4	
	Prodn.	4	3	3	3	5	
	Yield	614	810	838	802	1025	
Rabi	Area	37	38	36	36	35	
	Prodn.	53	54	56	56	54	
	Yield	1425	1451	1552	1582	1528	
Total	Area	43	42	40	40	40	
	Prodn.	57	58	59	60	58	
	Yield	1318	1386	1482	1499	1472	

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Rajasthan	Kharif	Area	2280	2021	1921	1984	2337
		Prod.	2433	2556	2565	2836	2555
		Yield	1067	1265	1335	1430	1093
	Rabi	Area	2534	2599	2215	2380	3086
		Prod.	3260	3684	3546	4063	4214
		Yield	1286	1418	1601	1707	1366
	Total	Area	4814	4620	4137	4363	5423
		Prod.	5693	6240	6111	6899	6769
		Yield	1182	1351	1477	1581	1248
Sikkim	Kharif	Area	-	3	3	3	3
		Prod.	-	3	3	3	3
		Yield	-	975	975	976	976
	Rabi	Area	-	4	3	3	3
		Prod.	-	3	3	3	3
		Yield	-	866	875	875	878
	Total	Area	-	7	6	6	6
		Prod.	-	6	6	6	6
		Yield	-	918	924	924	925
Tamil Nadu	Kharif	Area	277	230	235	246	268
		Prod.	519	319	489	453	557
		Yield	1875	1390	2082	1839	2081
	Rabi	Area	131	93	145	144	142
		Prod.	414	285	549	488	518
		Yield	3171	3049	3776	3392	3657
	Total	Area	407	323	380	390	409
		Prod.	932	604	1038	941	1075
		Yield	2290	1870	2729	2411	2626
Telangana	Kharif	Area	320	370	218	199	233
		Prod.	294	416	330	294	394
		Yield	919	1124	1513	1479	1691
	Rabi	Area	130	152	156	122	106
		Prod.	202	307	340	295	245
		Yield	1554	2020	2179	2416	2314
	Total	Area	450	522	374	321	339
		Prod.	496	723	670	589	639
		Yield	1102	1385	1791	1835	1886
Tripura	Kharif	Area	-	7	9	8	8
		Prod.	-	5	6	6	6
		Yield	-	689	677	730	744
	Rabi	Area	-	9	9	9	9
		Prod.	-	8	8	8	8
		Yield	-	911	879	899	920
	Total	Area	-	15	18	17	17
		Prod.	-	13	14	14	14

State	Season	Element	2015-16	2016-17	2017-18	2018-19	2019-20
Uttar Pradesh	Kharif	Yield	-	814	780	816	838
		Area	679	475	380	451	472
		Prod.	250	171	182	195	165
	Rabi	Yield	368	360	479	432	350
		Area	612	724	707	782	790
		Prod.	615	879	964	1136	981
	Total	Yield	1005	1214	1363	1452	1241
		Area	1291	1199	1087	1233	1262
		Prod.	865	1050	1146	1331	1146
	Uttarakhand	Kharif	Yield	670	876	1054	1079	908
Area			17	15	13	12	12
Prod.			20	15	14	11	11
Rabi		Yield	1216	1000	1066	937	920
		Area	16	13	16	17	15
		Prod.	16	11	13	16	15
Total		Yield	979	846	794	939	967
		Area	32	28	29	29	27
		Prod.	36	26	27	27	25
West Bengal		Kharif	Yield	1100	929	916	938	947
	Area		234	240	249	245	269
	Prod.		220	223	235	235	140
	Rabi	Yield	937	929	943	959	522
		Area	559	552	698	682	689
		Prod.	707	686	899	928	876
	Total	Yield	1265	1242	1289	1361	1270
		Area	794	792	946	927	958
		Prod.	927	909	1134	1164	1016
	Others	Kharif	Yield	1168	1147	1198	1255	1060
Area			55	-	-	--	--
Prod.			59	-	-	--	--
Rabi		Yield	1069	-	-	--	--
		Area	124	-	-	--	--
		Prod.	121	-	-	--	--
Total		Yield	974	-	-	--	--
		Area	179	-	-	--	--
		Prod.	180	-	-	--	--
India		Kharif	Yield	1004	-	-	--
	Area		18863	18675	17228	17709	19284
	Prod.		16680	21526	21006	20676	22247
	Rabi	Yield	884	1153	1219	1168	1154
		Area	7224	7502	7279	7085	7856
		Prod.	8571	9750	10453	10846	10972
	Total	Yield	1186	1300	1436	1531	1397
		Area	26087	26177	24508	24794	27139
		Prod.	25251	31276	31459	31522	33219
			Yield	968	1195	1284	1271	1224

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry

14.2 Top Five States pertaining to Area & Production of Oilseed Crops

Crop	2018-19			2019-20			2018-19			2019-20		
	State	Area ('000 ha)	Share in All India Area (%)	State	Prod'n. ('000 tonnes)	Share in All India Prod'n. (%)	State	Area ('000 ha)	Share in All India Area (%)	State	Prod'n. ('000 tonnes)	Share in All India Prod'n. (%)
Groundnut	Gujarat	1594	34	Gujarat	2203	33	Gujarat	1689	35	Gujarat	4646	47
	Andhra Pradesh	748	16	Rajasthan	1382	21	Rajasthan	739	15	Rajasthan	1619	16
	Rajasthan	673	14	Tamil Nadu	911	14	Andhra Pradesh	661	14	Tamil Nadu	1033	10
	Karnataka	515	11	Andhra Pradesh	462	7	Karnataka	504	10	Andhra Pradesh	849	9
	Tamil Nadu	335	7	Karnataka	391	6	Tamil Nadu	347	7	Karnataka	503	5
	All India	4731		All India	6727		All India	4825		All India	9952	
Rapeseed & Mustard	Rajasthan	2372	39	Rajasthan	4053	44	Rajasthan	3076	45	Rajasthan	4202	46
	Madhya Pradesh	707	12	Haryana	1254	14	Uttar Pradesh	759	11	Haryana	1150	13
	Uttar Pradesh	753	12	Uttar Pradesh	1117	12	Madhya Pradesh	675	10	Madhya Pradesh	1038	11
	Haryana	609	10	Madhya Pradesh	1040	12	Haryana	641	9	Uttar Pradesh	957	10
	West Bengal	606	10	West Bengal	734	8	West Bengal	610	9	West Bengal	712	8
	All India	6124		All India	9256		All India	6856		All India	9124	
Soybean	Madhya Pradesh	5419	49	Madhya Pradesh	6671	50	Madhya Pradesh	6194	51	Madhya Pradesh	4887	44
	Maharashtra	4075	37	Maharashtra	4611	35	Maharashtra	4124	34	Maharashtra	4825	43
	Rajasthan	932	8	Rajasthan	1169	9	Rajasthan	1119	9	Rajasthan	525	5
	Karnataka	249	2	Karnataka	257	2	Karnataka	320	3	Karnataka	379	3
	Telangana	148	1	Telangana	234	2	Telangana	172	1	Telangana	311	3
	All India	11131		All India	13268		All India	12193		All India	11226	
Sunflower	Karnataka	137	52	Karnataka	106	49	Karnataka	129	57	Karnataka	103	29
	Maharashtra	38	14	Haryana	18	8	Maharashtra	28	12	Odisha	21	22
	Odisha	16	6	Gujarat	16	8	Odisha	17	7	Haryana	17	15
	Gujarat	16	6	Odisha	16	8	Haryana	9	4	Maharashtra	12	9

Crop	State	Area (‘000 ha)	Share in All India Area (%)	State	Prodn. (‘000 tonnes)	Share in All India Prodn. (%)	State	Area (‘000 ha)	Share in All India Area (%)	State	Prodn. (‘000 tonnes)	Share in All India Prodn. (%)
Safflower	Andhra Pradesh	13	5	Punjab	10	4	Andhra Pradesh	9	4	Bihar	12	6
	All India	262		All India	216		All India	228		All India	213	
	Maharashtra	25	55	Maharashtra	12	48	Karnataka	26	50	Karnataka	25	58
	Karnataka	16	35	Karnataka	10	40	Maharashtra	22	42	Maharashtra	15	34
	Telangana	3	7	Telangana	2	7	Telangana	2	4	Telangana	2	5
	Jharkhand	1	2	Jharkhand	0	2	Andhra Pradesh	1	2	Andhra Pradesh	1	1
	Odisha	1	1	Odisha	0	1	Odisha	0	1	Arunachal Pradesh	0	1
	All India	46		All India	25		All India	52		All India	44	
Castor	Gujrat	522	69	Gujrat	944	79	Gujarat	737	70	Gujarat	1432	78
	Rajasthan	141	19	Rajasthan	208	17	Rajasthan	204	20	Rajasthan	327	18
	Andhra Pradesh	37	5	Andhra Pradesh	15	1	Andhra Pradesh	38	4	Telangana	37	2
	Telangana	20	3	Telangana	15	1	Telangana	28	3	Andhra Pradesh	26	1
	Maharashtra	13	2	Odisha	5	0	Maharashtra	11	1	Haryana	4	0
	All India	751		All India	1197		All India	1046		All India	1842	
	Chhattisgarh	56	36	Odisha	20	43	Odisha	53	39	Odisha	20	48
	Odisha	53	34	Chhattisgarh	11	24	Chhattisgarh	51	37	Chhattisgarh	10	23
Niger	Madhya Pradesh	18	12	Madhya Pradesh	5	12	Maharashtra	8	6	Assam	3	8
	Andhra Pradesh	6	4	Assam	3	7	Madhya Pradesh	6	4	Madhya Pradesh	2	5
	Assam	6	4	Jharkhand	3	6	Assam	6	4	Maharashtra	2	4
	All India	156		All India	45		All India	136		All India	41	
	Uttar Pradesh	327	23	West Bengal	231	33	Uttar Pradesh	356	22	West Bengal	135	21
Sesame	Madhya Pradesh	248	17	Madhya Pradesh	139	20	Madhya Pradesh	315	19	Madhya Pradesh	126	19
	Rajasthan	242	17	Rajasthan	84	12	Rajasthan	280	17	Gujarat	108	16
	West Bengal	240	17	Uttar Pradesh	74	11	West Bengal	263	16	Rajasthan	92	14

Crop	State	Area (‘000 ha)	Share in All India Area (%)	State	Prodn. (‘000 tonnes)	Share in All India Prodn. (%)	State	Area (‘000 ha)	Share in All India Area (%)	State	Prodn. (‘000 tonnes)	Share in All India Prodn. (%)
Linseed	Gujarat	98	7	Gujarat	49	7	Gujarat	166	10	Uttar Pradesh	66	10
	All India	1420		All India	689		All India	1623		All India	658	
	Jharkhand	40	23	Madhya Pradesh	27	27	Madhya Pradesh	52	29	Madhya Pradesh	45	37
	Madhya Pradesh	38	22	Jharkhand	20	20	Jharkhand	40	22	Jharkhand	23	19
	Uttar Pradesh	28	16	Uttar Pradesh	18	18	Uttar Pradesh	27	15	Uttar Pradesh	19	15
	Chhattisgarh	18	10	Bihar	8	8	Chhattisgarh	16	9	Bihar	7	6
	Bihar	10	6	Odisha	6	6	Odisha	10	6	Odisha	5	4
	All India	173		All India	99		All India	180		All India	121	

Source: Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

14.3 Oilseed Profile of Andhra Pradesh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season		2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	51	33	32	37	38
		Production	29	16	21	15	26
		Yield	569	485	655	415	684
Groundnut	Kharif	Area	682	933	648	687	568
		Production	598	391	837	333	622
		Yield	877	419	1291	484	1095
	Rabi	Area	93	80	87	61	93
		Production	203	212	212	129	227
		Yield	2183	2650	2435	2122	2439
Total	Area	775	1013	735	748	661	
	Production	801	603	1048	462	849	
	Yield	1034	595	1426	618	1284	
Linseed	Rabi	Area	-	-	-	-	-
		Production	-	-	-	-	-
		Yield	-	-	-	-	-
Niger	Kharif	Area	7	6	6	6	4
		Production	3	2	3	2	1
		Yield	429	333	413	318	331
Rapeseed and Mustard	Rabi	Area	1	5	3	4	2
		Production	1	2	1	1	1
		Yield	1000	400	457	345	485
Safflower	Rabi	Area	-	-	-	-	1
		Production	-	-	-	-	1
		Yield	-	-	-	-	490
Sesamum	Kharif	Area	53	64	40	48	39
		Production	14	17	11	13	13
		Yield	264	266	274	269	343
Soybean	Kharif	Area	1	2	1	1	1
		Production	2	3	1	2	2
		Yield	2000	1612	1889	1926	1747
Sunflower	Kharif	Area	7	9	3	3	2
		Production	5	6	2	2	1
		Yield	714	667	738	557	698
	Rabi/Summer	Area	20	12	6	10	7
		Production	18	15	9	7	7
		Yield	900	1250	1544	731	1012
Total	Area	27	21	9	13	9	
	Production	23	21	12	9	9	
	Yield	852	1000	1275	691	942	
State Total	Area	915	1144	826	857	755	
	Production	873	664	1097	504	901	

	Yield	954	581	1329	589	1194
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14.4 Oilseed Profile of Arunachal Pradesh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.4	0.2	0.2	0.7	0.2
		Production	0.2	0.1	0.1	0.6	0.1
		Yield	571	540	570	908	575
Groundnut	Kharif	Area	1	1	1	1	1
		Production	1	1	1	1	1
		Yield	1037	978	980	981	981
Linseed	Rabi	Area	-	0	0	-	0
		Production	-	0.1	0.1	-	0.1
		Yield	-	1500	1465	-	2273
Niger	Kharif	Area	-	0.2	0.2	-	0.2
		Production	-	0.2	0.2	-	0.2
		Yield	-	995	1000	-	1000
Rapeseed and Mustard	Rabi	Area	29	28	28	28	28
		Production	32	29	29	29	29
		Yield	1089	1019	1019	1019	1019
Safflower	Rabi	Area	-	0.3	0.3	-	0.3
		Production	-	0.3	0.3	-	0.3
		Yield	-	983	973	-	973
Sesamum	Kharif	Area	2	2	2	2	2
		Production	1	2	2	2	2
		Yield	444	889	892	892	892
Soybean	Kharif	Area	3	3	3	3	3
		Production	3	4	4	4	4
		Yield	991	1420	1417	1417	1418
Sunflower	Kharif	Area	0.2	0.5	0.6	0.6	0.6
		Production	0.1	0.4	0.5	0.5	0.5
		Yield	549	802	816	817	817
State Total		Area	35	35	36	36	36
		Production	36	37	37	37	37
		Yield	1043	1043	1039	1037	1039

14.5 Oilseed Profile of Assam

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.9	0.7	0.8	0.7	0.7
		Production	0.4	0.3	0.4	0.3	0.3
		Yield	462	465	467	455	452
Linseed	Rabi	Area	5	5	5	5	5
		Production	3	3	3	3	3
		Yield	633	608	613	608	614
Niger	Kharif	Area	7	6	6	6	6
		Production	4	3	3	3	3
		Yield	604	555	564	550	558
Rapeseed and Mustard	Rabi	Area	286	294	290	286	287
		Production	200	189	186	184	177
		Yield	698	644	639	643	617
Sesamum	Kharif	Area	12	12	12	12	12
		Production	8	8	8	8	9
		Yield	680	707	683	697	709
State Total		Area	310	318	314	309	311
		Production	215	204	201	198	192
		Yield	693	643	639	642	619

14.6 Oilseed Profile of Bihar

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	-	0.1	-	0.1	0.1
		Production	-	0.1	-	0.1	0.1
		Yield	954	961	1000	965	966
Groundnut	Kharif	Area	1	1	1	1	1
		Production	1	1	1	1	1
		Yield	1018	1015	1019	1020	1020
Linseed	Rabi	Area	15	13	12	10	8
		Production	13	11	10	8	7
		Yield	859	833	851	849	845
Rapeseed and Mustard	Rabi	Area	90	83	79	81	75
		Production	94	98	99	104	89
		Yield	1053	1180	1245	1290	1187
Safflower	Rabi	Area	0.1	0.1	0.1	0.1	0.1
		Production	0.1	0.1	0.1	0.1	0.1
		Yield	802	813	818	811	812
Sesamum	Kharif	Area	3	2	2	2	1
		Production	2	2	1	1	1

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Soybean		Yield	868	877	877	873	876
	Kharif	Area	-	-	-	-	20
		Production	-	-	-	-	15
		Yield	-	-	-	-	0
	Kharif	Area	2	2	1	1	1
		Production	3	3	2	2	2
Yield		1323	1287	1291	1343	1280	
Sunflower	Rabi/ Summer	Area	10	8	8	6	7
		Production	14	12	12	9	10
		Yield	1440	1463	1448	1448	1449
	Total	Area	11	10	9	7	8
		Production	16	15	13	11	12
		Yield	1421	1428	1429	1430	1421
State Total	Area	120	109	103	100	114	
	Production	127	126	124	125	125	
	Yield	1059	1156	1209	1247	1100	

14.7 Oilseed Profile of Chhattisgarh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	27	25	20	30	27
		Production	34	46	33	40	42
		Yield	1231	1841	1645	1338	1524
Linseed	Rabi	Area	27	30	26	18	16
		Production	8	10	6	5	5
		Yield	292	345	248	260	284
Niger	Kharif	Area	61	65	56	56	51
		Production	10	12	11	11	10
		Yield	160	187	188	192	190
Rapeseed and Mustard	Rabi	Area	43	51	44	42	39
		Production	22	20	18	18	16
		Yield	517	388	415	419	416
Safflower	Rabi	Area	1.0	0.7	0.3	0.3	0.2
		Production	0.3	0.2	0.1	0.1	0.1
		Yield	300	286	297	406	409
Sesamum	Kharif	Area	19	20	25	21	15
		Production	7	8	8	7	7
		Yield	344	401	336	346	448
Soybean	Kharif	Area	120	104	96	93	72
		Production	69	73	46	65	80
		Yield	576	697	481	699	1105
Sunflower	Kharif	Area	0.4	1	-	0.1	-

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
State Total		Production	0.2	0.3	-	-	-
		Yield	500	500	-	628	-
		Area	-	0.4	-	-	-
	Rabi	Area	-	0.4	-	-	-
		Production	-	0.2	-	-	-
		Yield	-	500	-	-	-
	Total	Area	0.4	1	-	0.1	-
		Production	0.2	1	-	-	-
		Yield	500	500	-	628	-
		Area	299	297	267	260	221
		Production	150	170	123	146	159
		Yield	501	572	462	560	720

14.8 Oilseed Profile of Delhi

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Rapeseed and Mustard	Rabi	Area	4	4	4	4	4
		Production	5	5	5	5	5
		Yield	1260	1248	1260	1262	1261

14.9 Oilseed Profile of Goa

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	0.4	0.3	0.3	0.2	-
		Production	1	1	1	1	-
		Yield	2042	2557	2325	2370	2764
	Rabi	Area	2	1	1	0.2	0.2
		Production	3	3	3	1	0.4
		Yield	2146	2302	2243	2320	2500
	Total	Area	2	2	2	0.4	0.2
		Production	4	4	4	1	0.4
		Yield	2126	2353	2258	2345	2503
State Total	Area	2	2	2	0.4	0.2	
	Production	4	4	4	1	0.4	
	Yield	2105	2353	2188	2500	2000	

14.10 Oilseed Profile of Gujarat

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	Item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	714	541	585	522	737
		Production	1413	1121	1333	944	1432
		Yield	1979	2072	2279	1809	1944
	Kharif	Area	1356	1696	1627	1566	1629
		Production	2243	3044	3841	2143	4503
		Yield	1654	1795	2361	1368	2764
Groundnut	Rabi	Area	58	63	52	28	59
		Production	96	113	96	60	142
		Yield	1655	1794	1842	2156	2393
	Total	Area	1414	1759	1679	1594	1689
		Production	2339	3157	3937	2203	4646
		Yield	1654	1795	2345	1382	2751
Niger	Kharif	Area	6	5	4	0	3
		Production	3	3	2	0	1
		Yield	500	600	500	1600	450
Rapeseed and Mustard	Rabi	Area	190	201	221	195	173
		Production	306	344	400	349	334
		Yield	1611	1711	1808	1784	1932
Safflower	Rabi	Area	-	-	-	-	-
		Production	-	-	-	-	-
		Yield	-	-	-	-	-
Sesamum	Kharif	Area	164	150	123	98	166
		Production	64	78	73	49	108
		Yield	390	520	591	498	649
Soybean	Kharif	Area	80	120	146	136	101
		Production	54	86	116	173	133
		Yield	675	717	791	1276	1318
Sunflower	Rabi	Area	-	-	-	16	1
		Production	-	-	-	16	1
		Yield	-	-	-	1055	1820
State Total		Area	2568	2776	2758	2561	2868
		Production	4179	4789	5860	3734	6653
		Yield	1627	1725	2125	1458	2320

14.11 Oilseed Profile of Haryana

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.2	1	1	2	4
		Production	0.3	2	1	1	4
		Yield	1300	1300	980	778	1028
Groundnut	Kharif	Area	5	5	3	4	3
		Production	5	5	4	3	3
		Yield	1000	1000	1202	900	1201
Rapeseed and Mustard	Rabi	Area	505	510	549	609	641
		Production	805	945	1108	1254	1150
		Yield	1594	1853	2018	2058	1793
Sesamum	Kharif	Area	3	2	1	2	2
		Production	1	1	1	1	1
		Yield	382	400	615	615	565
Sunflower	Kharif	Area	-	-	-	-	-
		Production	-	-	-	-	-
		Yield	-	-	-	-	-
	Rabi	Area	9	9	5	10	9
		Production	19	12	9	18	17
		Yield	2056	1393	1886	1905	1846
	Summer	Area	-	-	-	-	-
		Production	-	-	-	-	-
		Yield	-	-	-	-	-
Total	Area	9	9	5	10	9	
	Production	19	12	9	18	17	
	Yield	2056	1393	1886	1905	1846	
State Total	Area	522	527	559	625	659	
	Production	830	965	1123	1277	1175	
	Yield	1589	1832	2008	2042	1783	

14.12 Oilseed Profile of Himachal Pradesh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	-	0.1	-	-	-
		Production	-	0.1	-	-	0.1
		Yield	-	1020	1028	1030	1160
Linseed	Rabi	Area	0.8	1.0	0.8	0.8	0.8
		Production	0.2	0.3	0.2	0.2	0.3
		Yield	295	295	299	300	420
Rapeseed and Mustard	Rabi	Area	9	9	8	9	9
		Production	4	4	5	5	5

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Sesamum	Kharif	Yield	517	506	546	550	570
		Area	3	2	0.1	0.3	0.4
		Production	1	1	0.1	0.1	0.2
		Yield	346	355	450	450	500
Soybean	Kharif	Area	1	1	1	1	1
		Production	1	1	1	1	1
		Yield	1676	980	1677	1680	1710
State Total		Area	13	13	10	10	10
		Production	6	6	6	6	7
		Yield	508	484	582	578	625

14.13 Oilseed Profile of Jammu and Kashmir

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	-	-	-	-	-
		Production	-	0	-	-	-
		Yield	-	-	-	-	-
Linseed	Rabi	Area	0.2	0.1	0.1	0.2	0.1
		Production	0.1	-	-	0.2	-
		Yield	878	369	484	1111	-
Niger	Kharif	Area	-	1	-	-	-
		Production	-	1	-	-	-
		Yield	-	776	-	-	-
Rapeseed and Mustard	Rabi	Area	51	48	47	47	45
		Production	31	25	38	54	41
		Yield	612	526	793	1149	899
Sesamum	Kharif	Area	4	6	4	4	4
		Production	2	3	2	2	2
		Yield	410	434	407	409	409
State Total		Area	54	55	52	52	49
		Production	33	29	39	56	42
		Yield	597	524	761	1087	860

14.14 Oilseed Profile of Jharkhand

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	3	0.2	0.2	-	0.1
		Production	1	0.1	0.1	-	0
		Yield	404	422	376	632	594
Groundnut	Kharif	Area	25	27	32	30	26
		Production	21	28	36	31	29

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Linseed	Rabi	Yield	830	1049	1111	1032	1103
		Area	26	39	52	40	40
		Production	14	24	30	20	23
		Yield	534	612	570	491	584
Niger	Kharif	Area	4	11	5	5	3
		Production	2	8	3	3	2
		Yield	520	701	567	548	480
Rapeseed and Mustard	Rabi	Area	194	273	305	237	291
		Production	136	199	218	165	231
		Yield	699	728	715	695	794
Safflower	Rabi	Area	-	0.5	2	0.8	0.3
		Production	-	0.3	1	0.5	0.2
		Yield	-	524	554	583	491
Sesamum	Kharif	Area	5	6	16	15	6
		Production	2	3	7	5	2
		Yield	354	485	414	350	381
Soybean	Kharif	Area	1	1	2	6	1
		Production	1	1	2	5	1
		Yield	931	579	798	747	858
Sunflower	Kharif	Area	0.2	1.4	0.4	0.4	0.1
		Production	0.1	0.8	0.3	0.2	0.1
		Yield	712	544	700	552	523
	Rabi/ Summer	Area	1	2	2	0.7	0.4
		Production	1	1	1	0.3	0.2
		Yield	466	502	518	459	547
Total	Total	Area	2	3	2	1	0.5
		Production	1	2	1	1	0.3
		Yield	498	522	553	490	541
State Total	Total	Area	259	361	417	334	368
		Production	177	264	297	228	289
		Yield	681	733	713	684	784

14.15 Oilseed Profile of Karnataka

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	9	9	7	3	4
		Production	5	5	5	2	4
		Yield	556	556	677	605	970
Groundnut	Kharif	Area	406	497	390	378	393
		Production	274	248	346	272	370
		Yield	675	499	886	720	941
	Rabi	Area	164	169	174	137	111

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20	
Linseed		Production	121	171	207	119	133	
		Yield	738	1012	1190	868	1198	
	Total	Area	570	666	564	515	504	
		Production	395	419	553	391	503	
	Rabi	Yield	693	629	980	759	998	
		Area	5	3	2	2	1	
		Production	2	1	1	0.4	1	
	Niger	Kharif	Yield	293	333	363	217	513
			Area	7	6	4	1	1
			Production	2	1	1	0.2	0.2
Rapeseed and Mustard	Rabi	Yield	286	167	218	200	248	
		Area	2	4	2	3	0	
		Production	0.3	0.8	0.3	0.6	0	
Safflower	Rabi	Yield	150	200	168	202	0	
		Area	54	32	34	16	26	
		Production	30	22	28	10	25	
Sesamum	Kharif	Yield	563	688	818	617	972	
		Area	51	35	36	24	29	
		Production	24	22	24	16	25	
Soybean	Kharif	Yield	471	629	661	665	864	
		Area	258	318	277	249	320	
		Production	140	237	253	257	379	
Sunflower	Kharif	Yield	543	745	913	1034	1183	
		Area	125	134	111	90	101	
		Production	51	78	68	81	80	
	Rabi/ Summer	Yield	408	582	612	896	796	
		Area	205	86	62	47	28	
		Production	101	20	39	25	23	
State Total	Total	Yield	491	233	629	531	821	
		Area	330	220	173	137	129	
		Production	152	98	107	106	103	
State Total		Yield	459	446	618	772	802	
		Area	1286	1293	1099	950	1014	
		Production	750	806	971	783	1040	
State Total		Yield	583	623	883	824	1025	

14.16 Oilseed Profile of Kerala

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	0.4	0.4	0.3	0.1	0.1
		Production	0.6	0.5	0.4	0.1	0.1
		Yield	1379	1411	1394	1261	1258

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Sesamum	Rabi	Area	-	-	-	0.1	0.1
		Production	-	-	-	0.1	0.1
		Yield	-	-	-	1227	1255
	Total	Area	0.4	0.4	0.3	0.2	0.1
		Production	0.6	0.5	0.4	0.2	0.1
		Yield	1379	1411	1394	1247	1256
	Kharif	Area	0.2	0.2	0.2	0.4	0.2
		Production	0.0	0.1	0.1	0.2	0.1
		Yield	257	335	334	418	439
State Total	Area	0.6	4.6	0.5	0.6	0.4	
	Production	0.6	0.6	0.5	0.4	0.3	
	Yield	1000	130	1000	667	750	

14.17 Oilseed Profile of Madhya Pradesh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	5	14	9	1	7
		Production	2	6	5	0.4	3
		Yield	400	429	556	373	390
	Kharif	Area	236	255	218	216	217
		Production	332	378	338	399	344
		Yield	1405	1482	1551	1849	1587
Groundnut	Rabi	Area	-	-	6	7	4
		Production	-	-	11	13	6
		Yield	-	-	1833	1809	1570
	Total	Area	236	255	224	223	221
		Production	332	378	349	412	351
		Yield	1405	1482	1558	1848	1587
Linseed	Rabi	Area	116	121	162	38	52
		Production	55	61	86	27	45
		Yield	474	504	531	712	867
Niger	Kharif	Area	80	74	61	18	6
		Production	23	27	21	5	2
		Yield	288	365	344	300	333
Rapeseed and Mustard	Rabi	Area	617	708	748	707	675
		Production	666	920	976	1040	1038
		Yield	1079	1299	1305	1471	1538
Safflower	Rabi	Area	10	30	1	-	-
		Production	5	15	1	-	-
		Yield	500	500	1000	-	-
Sesamum	Kharif	Area	365	380	424	248	315
		Production	180	165	187	139	126

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Soybean		Yield	492	434	441	559	400
	Kharif	Area	5906	5401	5010	5419	6194
		Production	4908	6649	5321	6671	4887
		Yield	831	1231	1062	1231	789
	Kharif	Area	1	1	1	-	-
		Production	1	1	1	-	-
Yield		1000	1000	1000	-	-	
Sunflower	Summer	Area	-	2	2	-	-
		Production	-	2	2	-	-
		Yield	-	1000	1000	-	-
	Total	Area	1	3	3	-	-
Production		1	3	3	-	-	
Yield		1000	1000	1000	-	-	
State Total		Area	7336	6986	6642	6654	7470
		Production	6171	8224	6949	8294	6452
		Yield	841	1177	1046	1247	864

14.18 Oilseed Profile of Maharashtra

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	21	7	6	13	11
		Production	5	2	1	4	3
		Yield	238	304	236	291	305
Groundnut	Kharif	Area	224	235	240	217	221
		Production	217	287	276	204	192
		Yield	174	220	207	169	156
Groundnut	Rabi	Area	85	120	51	27	70
		Production	117	133	69	35	118
		Yield	1377	1113	1349	1308	1687
Groundnut	Total	Area	309	355	291	244	291
		Production	334	420	344	239	309
		Yield	1081	1184	1183	977	1063
Linseed	Rabi	Area	16	14	11	7	6
		Production	4	3	3	3	2
		Yield	250	239	293	380	353
Niger	Kharif	Area	12	14	13	11	8
		Production	2	2	2	1	2
		Yield	167	163	159	122	200
Rapeseed and Mustard	Rabi	Area	10	10	8	6	12
		Production	3	3	2	2	4
		Yield	300	358	286	367	330
Safflower	Rabi	Area	57	76	39	25	22

Crop	Season	Item	2015-16	2016-17	2017-18	2018-19	2019-20	
Sesamum		Production	13	52	21	12	15	
		Yield	228	691	548	475	691	
	Kharif	Area	30	34	32	39	26	
		Production	4	8	7	7	5	
	Soybean	Kharif	Yield	133	233	211	167	200
			Area	3702	3841	3694	4075	4124
Kharif		Production	2061	4587	3805	4611	4825	
		Yield	557	1194	1030	1132	1170	
Sunflower		Kharif	Area	18	21	16	21	19
			Production	2	6	8	4	7
	Yield		111	280	483	193	352	
	Rabi	Area	29	38	24	16	9	
		Production	8	29	13	3	5	
		Yield	50	138	92	34	112	
Total	Area	47	59	40	38	28		
	Production	10	35	20	7	12		
	Yield	213	594	501	190	436		
State Total	Area	4204	4409	4134	4458	4526		
	Production	2436	5114	4206	4885	5177		
	Yield	579	1160	1017	1096	1144		

14.19 Oilseed Profile of Manipur

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	Item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	-	-	-	-	3
		Production	-	-	-	-	2
		Yield	-	-	-	-	868
	Rabi	Area	3	3	3	3	-
		Production	3	3	3	3	-
		Yield	879	888	941	931	-
	Total	Area	3	3	3	3	3
		Production	3	3	3	3	2
		Yield	879	888	941	931	868
Rapeseed and Mustard	Rabi	Area	29	29	29	30	26
		Production	25	25	25	25	22
		Yield	846	855	856	840	840
Soybean	Kharif	Area	5	5	5	5	4
		Production	4	4	5	4	4
		Yield	838	857	907	899	870
State Total	Area	38	38	38	38	33	
	Production	32	32	33	32	28	
	Yield	848	859	867	856	846	

14.20 Oilseed Profile of Meghalaya

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.1	0.1	0.1	0.1	0.1
		Production	0.1	0.0	0.1	0.1	0.1
		Yield	903	100	903	903	903
Linseed	Rabi	Area	0.1	0.1	0.1	0.1	0.1
		Production	0.1	0.1	0.1	0.1	0.1
		Yield	582	556	591	596	600
Rapeseed and Mustard	Rabi	Area	10	10	10	10	10
		Production	10	9	9	9	9
		Yield	967	934	935	936	936
Sesamum	Kharif	Area	2	2	2	2	2
		Production	2	2	2	2	2
		Yield	968	928	930	933	933
Soybean	Kharif	Area	2	2	2	2	2
		Production	3	4	4	4	4
		Yield	1982	1892	1898	1900	1906
State Total		Area	14	14	14	14	14
		Production	15	15	15	15	15
		Yield	1101	1042	1049	1049	1056

14.21 Oilseed Profile of Mizoram

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Rapeseed and Mustard	Rabi	Area	0.7	0.3	0.4	0.5	0.6
		Production	0.7	0.3	0.4	0.4	0.4
		Yield	934	1003	1002	777	714
Sesamum	Kharif	Area	1	1	1	1	1
		Production	1	1	1	1	1
		Yield	749	673	631	771	783
Soybean	Kharif	Area	1	1	1	1	1
		Production	2	2	2	2	2
		Yield	1539	1574	1525	1731	1561
State Total		Area	3	2	2	2	3
		Production	3	3	2	3	3
		Yield	1154	1136	1091	1217	1120

14.22 Oilseed Profile of Nagaland

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.3	0.3	0.4	0.4	0.4
		Production	0.2	0.2	0.2	0.2	0.2
		Yield	667	677	686	667	667
Groundnut	Kharif	Area	1	1	1	1	2
		Production	1	1	1	1	2
		Yield	1034	1032	1041	1040	1048
Linseed	Rabi	Area	6	6	6	6	6
		Production	5	5	5	5	5
		Yield	808	811	813	814	814
Rapeseed and Mustard	Rabi	Area	28	27	28	28	28
		Production	28	28	28	28	28
		Yield	1011	1013	1012	1012	1012
Sesamum	Kharif	Area	4	4	4	4	4
		Production	2	2	2	2	2
		Yield	603	608	609	611	612
Soybean	Kharif	Area	25	25	25	25	25
		Production	31	31	32	32	32
		Yield	1254	1257	1259	1260	1262
Sunflower	Kharif	Area	0.3	0.4	0.4	0.4	0.4
		Production	0.3	0.3	0.3	0.3	0.3
		Yield	824	857	886	889	889
Sunflower	Summer	Area	2	2	2	2	2
		Production	1	1	1	1	2
		Yield	613	613	612	612	612
Sunflower	Total	Area	3	3	3	3	3
		Production	2	2	2	2	2
		Yield	641	646	649	649	649
State Total		Area	66	66	66	66	68
		Production	69	69	69	70	71
		Yield	1047	1052	1045	1048	1047

14.23 Oilseed Profile of Odisha

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	11	9	8	7	7
		Production	7	6	5	5	4
		Yield	632	631	632	634	625
Groundnut	Kharif	Area	18	26	16	13	11
		Production	15	26	15	14	14

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Linseed	Rabi	Yield	837	998	950	1074	1241
		Area	33	19	17	15	18
		Production	41	30	22	22	30
	Total	Yield	1242	1533	1308	1453	1610
		Area	51	45	33	28	29
		Production	56	55	38	36	43
	Rabi	Yield	1097	1229	1134	1277	1471
		Area	21	16	12	12	10
		Production	10	8	6	6	5
	Niger	Kharif	Yield	477	480	485	483	496
Area			64	64	59	53	53
Production			23	23	22	20	20
Rapeseed and Mustard	Rabi	Yield	353	356	368	367	371
		Area	7	10	9	6	7
		Production	2	3	3	2	2
Safflower	Rabi	Yield	205	345	326	275	293
		Area	0.4	0.4	0.4	0.5	0.3
		Production	0.2	0.2	0.2	0.3	0.2
Sesamum	Kharif	Yield	590	600	608	600	600
		Area	20	16	15	15	14
		Production	4	5	4	4	4
Soybean	Kharif	Yield	207	306	279	235	291
		Area	-	-	-	-	-
		Production	-	-	-	-	-
Sunflower	Kharif	Yield	-	-	-	-	-
		Area	0.3	0.3	0.2	0.2	0.6
		Production	0.2	0.2	0.2	0.1	0.5
	Rabi/ Summer	Yield	690	706	712	720	722
		Area	16	18	12	16	16
		Production	19	21	15	20	21
State Total	Total	Yield	1198	1200	1255	1258	1287
		Area	16	18	12	16	17
		Production	19	22	16	20	21
State Total		Yield	1189	1191	1245	1253	1266
		Area	190	178	149	138	137
		Production	120	121	93	91	100
State Total		Yield	633	681	625	662	725

14.24 Oilseed Profile of Puducherry

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	0.2	0.2	0.2	0.3	0.2
		Production	0.7	0.6	0.7	0.9	0.7
		Yield	2984	3000	3000	3197	3017
	Rabi	Area	0.1	0	0	-	0
		Production	0.2	0.1	0.1	-	0.1
		Yield	3000	2800	3000	3231	3000
	Total	Area	0.3	0.3	0.3	0.3	0.3
		Production	0.9	0.8	0.8	0.9	0.1
		Yield	2987	2968	3000	3199	250
Sesamum	Kharif	Area	0.1	0.1	0.1	0.1	0.2
		Production	0.1	0.1	0.1	0.1	0.2
		Yield	760	987	1103	858	763
State Total	Area	0.4	0.3	0.3	0.4	0.4	
	Production	1.0	0.8	0.9	1.0	1.0	
	Yield	2500	2667	3000	2500	2500	

14.25 Oilseed Profile of Punjab

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	1	1	1	1	2
		Production	2	2	2	3	4
		Yield	1900	1917	1950	1980	1980
Rapeseed and Mustard	Rabi	Area	31	32	31	31	31
		Production	42	45	46	47	46
		Yield	1348	1413	1498	1524	1482
Sesamum	Kharif	Area	5	3	3	3	3
		Production	2	1	1	1	1
		Yield	340	367	344	273	363
Sunflower	Summer	Area	6	6	6	5	4
		Production	12	10	11	10	8
		Yield	1797	1655	1840	1933	1859
State Total	Area	43	42	40	40	40	
	Production	57	58	59	60	58	
	Yield	1318	1386	1481	1501	1471	

14.26 Oilseed Profile of Rajasthan

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	191	143	143	141	204
		Production	270	191	168	208	327
		Yield	1410	1338	1178	1477	1598
	Kharif	Area	517	556	641	669	735
		Production	1049	1141	1259	1375	1612
		Yield	2029	2051	1966	2056	2195
Groundnut	Rabi	Area	-	-	-	5	5
		Production	-	-	-	7	7
		Yield	-	-	-	1583	1562
	Total	Area	517	556	641	673	739
		Production	1049	1141	1259	1382	1619
		Yield	2029	2051	1966	2053	2191
Linseed	Rabi	Area	2	35	5	3	5
		Production	2	39	5	3	5
		Yield	1013	1114	1012	1009	964
Rapeseed and Mustard	Rabi	Area	2532	2564	2210	2372	3076
		Production	3258	3645	3541	4053	4202
		Yield	1287	1422	1602	1709	1366
Sesamum	Kharif	Area	367	267	252	242	280
		Production	115	93	68	84	92
		Yield	314	347	269	348	328
Soybean	Kharif	Area	1205	1056	887	932	1119
		Production	999	1132	1070	1169	525
		Yield	829	1072	1207	1254	469
State Total		Area	4814	4620	4137	4364	5423
		Production	5693	6240	6111	6899	6769
		Yield	1183	1351	1477	1581	1248

14.27 Oilseed Profile of Sikkim

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Rapeseed and Mustard	Rabi	Area	4	4	3	3	3
		Production	3	3	3	3	3
		Yield	853	867	875	876	878
Soybean	Kharif	Area	3	3	3	3	3
		Production	3	3	3	3	3
		Yield	973	975	975	976	976
State Total		Area	7	7	6	6	6
		Production	6	6	6	6	6
		Yield	900	914	921	918	950

14.28 Oilseed Profile of Tamil Nadu

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	6	5	4	5	5
		Production	2	2	1	2	2
		Yield	311	312	312	312	312
	Kharif	Area	223	195	189	197	209
		Production	485	305	464	426	519
		Yield	2175	1567	2460	2169	2479
Groundnut	Rabi	Area	124	88	139	139	138
		Production	408	284	544	485	515
		Yield	3293	3232	3917	3491	3742
	Total	Area	347	283	327	335	347
		Production	892	589	1008	911	1033
		Yield	2574	2085	3078	2718	2980
Rapeseed and Mustard	Rabi	Area	0.4	0.2	0.3	0.3	0.1
		Production	0.1	-	0.1	0.1	-
		Yield	229	200	232	232	233
Sesamum	Kharif	Area	46	28	42	45	53
		Production	29	11	23	24	37
		Yield	634	384	555	548	688
Sunflower	Kharif	Area	2	2	1	1	0.2
		Production	3	2	1	1	0.2
		Yield	1413	857	1944	1734	995
	Rabi	Area	6	6	6	5	4
		Production	6	1	5	3	4
		Yield	951	226	795	577	898
Total	Area	8	8	7	5	4	
	Production	9	3	6	4	4	
	Yield	1060	392	887	641	902	
State Total	Area	407	323	380	390	409	
	Production	932	604	1038	941	1075	
	Yield	2290	1870	2729	2410	2626	

14.29 Oilseed Profile of Telangana

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	48	45	28	20	28
		Production	17	26	26	15	37
		Yield	354	578	937	762	1310
Groundnut	Kharif	Area	14	26	21	13	12
		Production	21	52	46	33	33

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20	
Rapeseed and Mustard		Yield	1500	2000	2188	2504	2743	
	Rabi	Area	114	140	146	113	99	
		Production	185	290	327	281	233	
		Yield	1623	2071	2236	2489	2348	
	Total	Area	128	166	167	126	111	
		Production	206	342	372	314	265	
		Yield	1609	2060	2230	2491	2391	
	Rabi	Area	1	3	3	4	1	
		Production	2	5	5	8	2	
		Yield	2000	1667	1594	1940	1706	
	Safflower	Rabi	Area	4	4	4	3	2
		Rabi	Production	3	3	2	2	2
		Rabi	Yield	750	750	567	605	1105
	Sesamum	Kharif	Area	14	21	16	18	21
			Production	3	15	9	12	13
Yield			214	714	547	677	636	
Soybean	Kharif	Area	243	277	152	148	172	
		Production	252	322	247	234	311	
		Yield	1037	1163	1624	1584	1808	
Sunflower	Kharif	Area	1	1	1	-	-	
		Production	1	1	2	-	-	
		Yield	1000	1000	2119	-	-	
	Rabi	Area	11	5	3	2	4	
		Production	12	9	6	4	9	
		Yield	1091	1800	2135	1960	2231	
Total	Area	12	6	4	2	4		
	Production	13	10	9	4	9		
	Yield	1083	1667	2131	1960	2231		
State Total	Area	450	522	374	321	339		
	Production	496	723	670	589	639		
	Yield	1102	1385	1791	1836	1886		

14.30 Oilseed Profile of Tripura

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	0.5	1	1	1	1
		Production	0.6	1	1	2	2
		Yield	1146	1310	1198	1328	1334

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20	
Linseed	Rabi	Area	0.8	1	1	1	1	
		Production	1.0	2	1	1	2	
		Yield	1160	1584	1231	1438	1509	
	Total	Area	1	2	2	2	2	
		Production	2	3	3	3	3	
		Yield	1154	1459	1215	1376	1420	
	Rabi	Area	-	0.2	0.1	0.1	0	
		Production	-	0.1	0.1	-	-	
		Yield	-	700	700	774	-	
	Rapeseed and Mustard	Rabi	Area	6	8	8	8	8
			Production	5	6	7	6	7
			Yield	805	825	830	831	845
	Sesamum	Kharif	Area	4	6	7	7	7
			Production	2	3	4	4	4
			Yield	580	586	590	622	636
Soybean	Kharif	Area	-	0.3	0.5	0.1	0.2	
		Production	-	0.3	0.4	0.1	0.2	
		Yield	-	880	732	762	748	
State Total		Area	12	15	18	17	17	
		Production	9	13	14	14	15	
		Yield	784	818	790	808	843	

14.31 Oilseed Profile of Uttar Pradesh

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	Kharif	Area	97	94	88	101	94
		Production	65	85	89	100	89
		Yield	670	904	1013	994	942
Linseed	Rabi	Area	17	32	26	28	27
		Production	8	17	16	18	19
		Yield	460	531	602	631	688
Rapeseed and Mustard	Rabi	Area	593	689	679	753	759
		Production	603	858	945	1117	957
		Yield	1017	1245	1392	1483	1260
Sesamum	Kharif	Area	546	370	278	327	356
		Production	166	79	82	74	66
		Yield	304	214	295	226	184
Soybean	Kharif	Area	36	11	14	23	22
		Production	19	7	11	21	11
		Yield	519	636	777	901	513
Sunflower		Area	2	3	2	1	4
		Production	4	4	3	1	6

State Total	Rabi/ Summer	Yield	2000	1333	1442	1365	1382
		Area	1291	1199	1087	1233	1262
		Production	865	1050	1146	1331	1146
		Yield	670	876	1054	1079	908

14.32 Oilseed Profile of Uttarakhand

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.2	-	-	-	-
		Production	0.1	-	-	-	-
		Yield	556	-	-	-	-
Groundnut	Kharif	Area	1	1	1	1	1
		Production	2	1	1	1	1
		Yield	1415	1000	1377	1038	1089
Rapeseed and Mustard	Rabi	Area	16	13	16	17	15
		Production	16	11	13	16	15
		Yield	979	846	794	939	967
Sesamum	Kharif	Area	2	2	2	2	2
		Production	1	1	1	1	1
		Yield	271	500	293	298	301
Soybean	Kharif	Area	14	12	10	9	8
		Production	18	13	12	10	9
		Yield	1332	1083	1190	1067	1111
State Total		Area	33	28	29	29	26
		Production	36	26	27	27	25
		Yield	1095	929	917	938	965

14.33 Oilseed Profile of West Bengal

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	0.1	0.1	0.1	-	-
		Production	0.1	0	0.1	-	-
		Yield	750	629	750	590	-
Groundnut	Kharif	Area	2	2	3	4	4
		Production	2	2	2	4	5
		Yield	902	964	960	984	1120
Groundnut	Rabi	Area	82	75	68	64	67
		Production	188	173	163	184	152
		Yield	2290	2318	2394	2899	2264
Total		Area	84	77	71	67	71
		Production	190	176	165	188	156

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Linseed		Yield	2255	2279	2343	2788	2198
	Rabi	Area	6	7	6	4	4
		Production	2	2	3	2	2
		Yield	388	371	417	446	517
Niger	Kharif	Area	4	4	5	1	1
		Production	3	3	3	1	1
		Yield	738	728	700	501	516
Rapeseed and Mustard	Rabi	Area	458	459	615	606	610
		Production	499	495	723	734	712
		Yield	1090	1078	1175	1212	1167
Safflower	Rabi	Area	1.0	0.5	1.0	-	-
		Production	1.0	0.4	1.0	-	-
		Yield	1000	882	1000	700	-
Sesamum	Kharif	Area	227	233	241	240	263
		Production	214	217	229	231	135
		Yield	941	933	949	961	512
Soybean	Kharif	Area	0.6	0.6	0.8	0.4	0.2
		Production	0.4	0.4	0.6	0.3	0.2
		Yield	708	732	750	803	779
	Summer	Area	12	12	8	9	8
		Production	17	15	11	8	10
		Yield	1417	1312	1400	952	1221
Total	Area	12	12	8	9	8	
	Production	17	15	11	8	10	
	Yield	1417	1312	1400	952	1221	
State Total		Area	794	792	946	927	958
		Production	927	909	1134	1164	1016
		Yield	1168	1147	1199	1255	1060

14.34 Oilseed Profile of All India

(Area in '000 ha; Production in '000 tonnes; Yield in kg/ha)

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Castor	Kharif	Area	1061	808	824	751	1046
		Production	1752	1376	1568	1197	1842
		Yield	1652	1704	1902	1593	1761
Groundnut	Kharif	Area	3838	4579	4142	4132	4161
		Production	5368	6048	7595	5387	8389
		Yield	1399	1321	1834	1304	2016
	Rabi	Area	759	760	746	599	665
		Production	1366	1414	1657	1340	1563
		Yield	1801	1861	2222	2238	2352
Total	Area	4596	5338	4888	4731	4825	

Crop	Season	item	2015-16	2016-17	2017-18	2018-19	2019-20
Linseed		Production	6733	7462	9253	6727	9952
		Yield	1465	1398	1893	1422	2063
	Rabi	Area	263	325	326	173	180
		Production	126	184	174	99	121
		Yield	477	567	533	574	671
Niger	Kharif	Area	252	256	219	157	136
		Production	74	85	70	45	41
		Yield	295	332	321	290	303
Rapeseed and Mustard	Rabi	Area	5746	6074	5977	6124	6856
		Production	6797	7917	8430	9256	9124
		Yield	1183	1304	1410	1511	1331
Safflower	Rabi	Area	128	144	82	46	52
		Production	53	94	55	25	44
		Yield	416	651	673	537	843
Sesamum	Kharif	Area	1951	1667	1580	1420	1623
		Production	850	747	755	689	658
		Yield	436	448	478	485	405
Soybean	Kharif	Area	11605	11183	10329	11131	12193
		Production	8570	13159	10933	13268	11226
		Yield	739	1177	1059	1192	921
Sunflower	Kharif	Area	157	173	135	118	125
		Production	66	98	85	90	92
		Yield	421	567	627	766	731
	Rabi	Area	330	208	148	144	103
		Production	230	153	137	126	121
		Yield	698	737	924	874	1174
Total		Area	487	381	284	262	228
		Production	296	251	222	216	213
		Yield	609	660	782	826	931
Total		Area	26087	26177	24508	24794	27139
		Production	25251	31276	31459	31522	33219
		Yield	968	1195	1284	1271	1224

15. Oilseeds under irrigation

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15.1 Gross Area under Irrigation by Oilseed Crops in India

('000 ha)

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Irrigated Area under Oilseeds (‘000 ha)	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2015-16	1047	60	3345	12	89	119	1156	5828	2219	47544	10835	58428
2016-17	1078	49	2784	45	62	67	949	5033	1518	38675	8631	47306
2017-18	1205	67	3695	28	47	59	1109	6212	2426	70509	11969	82478
2018-19	1143	74	4369	19	40	59	1176	6881	2328	63203	11602	74784
2019-20	928	54	3063	25	8	12	917	5007	1332	36041	7546	43587

Source: www.aps.dac.gov.in

15.2 Crop-wise Percentage Distribution of Gross Cropped Irrigated Area of Oilseed Crops on Total Area under Irrigated Oilseeds and Total Area under Oilseeds

Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Irrigated Area under Oilseeds ('000 ha)	Total Area under Oilseeds ('000 ha)	(%) of Total Irrigated Area on Total Area under Oilseeds
2015-16	17.97	1.04	57.39	0.21	1.53	2.04	19.83	5827.89	26087	22.34
2016-17	21.42	0.96	55.31	0.89	1.23	1.34	18.85	5033.38	26177	19.23
2017-18	19.41	1.07	59.49	0.45	0.76	0.95	17.85	6211.77	24508	25.35
2018-19	16.61	1.08	63.50	0.28	0.58	0.86	17.09	6880.91	24794	27.75
2019-20	18.54	1.07	61.17	0.49	0.16	0.24	18.32	5006.68	27139	18.45

Source: www.aps.dac.gov.in

15.3 Crop-wise Percentage Distribution of Gross Cropped Irrigated Area of Oilseed Crops on Total Irrigated Area under All Crops

Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Total Irrigated Area under all crops
2015-16	1.79	0.1	5.72	0.02	0.15	0.2	1.98	9.97	58428
2016-17	2.28	0.1	5.88	0.1	0.13	0.14	2.01	10.64	47306
2017-18	1.46	0.1	4.48	0.03	0.06	0.07	1.34	7.53	82478
2018-19	1.53	0.1	5.84	0.03	0.05	0.08	1.57	9.20	74784
2019-20	2.13	0.1	7.03	0.06	0.02	0.03	2.10	11.49	43587

Source: www.aps.dac.gov.in

15.4 State-wise irrigated Area under Crops in India

('000 ha)

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
Andhra Pradesh												
2015-16	124	8.4	0.1	0.3	0.4	12	127	272	104	3087	460	3547
2016-17	126	9.2	1.1	0.2	0.1	11	130	278	100	3122	461	3582
2017-18	122	8.8	0.0	0.2	0.2	5	135	271	95	3274	456	3730
2018-19	94	8.6	0.0	0.2	0.9	6	139	248	107	3187	448	3635
2019-20	121	8.9	0.0	0.1	1.0	4	141	275	118	3328	485	3813
Arunachal Pradesh												
2015-16	--	--	--	--	--	--	--	--	--	56	--	56
2016-17	--	--	--	--	--	--	--	--	--	56	--	56
2017-18	--	--	--	--	--	--	--	--	--	56	--	56
2018-19	--	--	--	--	--	--	--	--	--	56	--	56
2019-20	--	--	--	--	--	--	--	--	--	56	--	56
Assam												
2015-16	--	--	--	--	--	--	1.0	1.0	--	338	--	388
2016-17	--	--	--	--	--	--	1.1	1.1	--	385	80	465
2017-18	0.0	0.2	47.1	0.3	--	0.0	0.0	47.6	--	425	58	483
2018-19	0.0	0.2	46.8	0.3	--	0.0	0.0	47.3	--	435	59	494
Bihar												
2015-16	0.1	0.3	61	0.9	--	10	3	75	--	5146	101	5247
2016-17	0.1	0.2	59	0.4	--	10	4	73	--	5246	95	5341
2017-18	--	0.2	56	0.5	--	9	3	68	--	5313	101	5414
2018-19	0.1	0.2	57	0.3	--	7	4	68	--	5392	100	5493
2019-20	0.1	0.2	52	0.2	1	7	2	63	--	5342	93	5435
Chhattisgarh												
2015-16	4	0.17	4	0.46	1.2	2.3	0.5	13	0.03	1738	15	1753

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2016-17	3	0.09	6	0.05	2.6	2.2	0.2	14	0.06	1830	16	1846
2017-18	3	0.11	5	0.10	1.9	1.2	1.6	13	0.2	1825	13	1838
2018-19	2	0.12	5	0.14	0.6	0.6	0.4	9	1.0	1996	10	2007
2019-20	2	0.04	6	0.21	0.6	0.6	0.2	9	1.9	2013	11	2024
Dadra & Nagar Haveli												
2015-16	--	--	--	--	--	--	--	--	--	8	--	8
2016-17	--	--	--	--	--	--	--	--	--	8	--	8
2017-18	--	--	--	--	--	--	--	--	--	8	--	8
Goa												
2015-16	1.5	--	--	--	--	--	3	5	--	34	5	39
2016-17	1.4	--	--	--	--	--	4	6	--	31	6	37
2017-18	--	--	--	--	--	--	4	6	--	29	6	35
2018-19	0.2	--	--	--	--	--	4	5	--	29	5	34
2019-20	0.2	--	--	--	--	--	4	4	--	28	4	32
Haryana												
2015-16	4	2.9	461	--	--	8	0.2	476	610	4383	1565	5948
2016-17	5	1.4	426	--	--	9	1.0	442	568	4408	1423	5831
2017-18	3	1.2	461	--	--	5	0.8	471	667	4454	1538	5993
2018-19	3	1.3	513	--	--	9	3	531	706	4418	1606	6024
Himachal Pradesh												
2015-16	0.010	0.2	2	0.7	0.2	--	0.1	3	--	197	9	206
2016-17	--	0.1	1	0.7	0.1	--	0.1	2	--	219	7	226
2017-18	0.004	0.2	1	0.2	0.2	--	0.5	2	--	194	9	203
2018-19	0.001	0.1	1	0.04	0.2	--	0.6	2	--	189	9	198
Jammu & Kashmir												

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2015-16	--	0.0	37	0.05	--	--	--	37	--	442	77	519
2016-17	--	1.2	36	0.05	--	--	0.44	38	--	421	76	497
2017-18	--	0.4	36	0.00	--	--	0.01	37	--	425	76	501
2018-19	--	0.4	36	0.06	--	--	0.02	37	--	414	81	495
2019-20	--	0.4	35	0.05	--	--	--	35	--	371	74	445
Jharkhand												
2015-16	--	0.02	17	0.08	--	0.01	0.2	17	--	218	17	235
2016-17	0.60	6.64	48	0.03	--	0.12	0.2	56	--	255	56	310
2017-18	0.00	0.00	24	0.14	0.00	0.00	0.3	25	0.0	223	25	247
2018-19	0.02	--	21	0.10	--	--	0.1	21	--	228	21	249
Karnataka												
2015-16	167	1.2	0.5	0.2	16	67	251	503	159	2985	757	3742
2016-17	178	0.3	0.1	0.2	15	41	245	480	123	2848	700	3548
2017-18	173	0.01	0.6	0.2	12	31	246	463	155	2929	710	3639
2018-19	162	0.1	3.1	0.5	12	31	301	510	189	3893	852	4745
Kerala												
2015-16	--	--	--	--	--	--	166	166	--	318	166	484
2016-17	--	--	--	--	--	--	160	160	--	337	160	497
2017-18	--	--	--	--	--	--	159	159	--	381	159	540
2018-19	--	--	--	--	--	--	159	159	--	283	232	515
2019-20	--	--	--	--	--	0.00	159	159	0.05	354	162	516
Madhya Pradesh												
2015-16	22	0.1	350	7	23	0.03	5	407	335	9207	822	10029
2016-17	23	0.1	368	9	18	0.04	7	425	342	9827	844	10671
2017-18	18	0.2	407	20	11	0.15	4	460	343	10507	878	11385

Oilseeds under irrigation

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2018-19	20	0.3	493	14	10	0.00	3	539	401	11692	992	12684
2019-20	14	2	454	20	5	0.04	3	498	422	13765	939	14704
Meghalaya												
2015-16	--	--	6	--	--	--	--	6	--	121	6	127
2016-17	--	--	6	--	--	--	--	6	--	136	6	143
2017-18	--	--	5	--	--	--	--	5	--	136	5	140
2018-19	--	--	5	--	1	--	--	5	--	137	5	142
Nagaland												
2015-16	--	--	3	1.0	--	0.09	--	4	--	111	4	114
2016-17	--	--	3	1.0	--	0.07	--	4	--	117	4	121
2017-18	--	--	1	0.4	--	--	--	1	--	121	1	123
2018-19	--	--	1	0.4	--	--	--	1	--	124	1	126
Odisha												
2015-16	13	1.4	3	--	--	--	2	18	--	1415	19	1434
2016-17	8	0.7	3	--	--	--	2	13	--	1296	13	1309
2017-18	8	0.5	2	--	--	--	1	12	--	1140	12	1151
2018-19	6	1.2	1	--	--	--	1	10	--	1304	10	1314
2019-20	10	1.0	2	--	--	--	3	17	--	1347	17	1363
Puducherry												
2015-16	0.3	0.1	--	--	--	--	0.6	1.0	0.1	20	2	22
2016-17	0.3	0.1	--	--	--	--	0.6	0.9	0.1	19	2	21
2017-18	0.3	0.1	--	--	--	--	0.6	0.9	0.2	20	2	22
2018-19	0.3	0.1	--	--	--	--	0.6	1.0	0.3	20	2	23
Punjab												
2015-16	0.9	8	28	0.03	--	6	2	44	335	6841	924	7765

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2016-17	0.7	2	29	0.43	--	6	2	39	284	6898	816	7714
2017-18	0.7	2	27	0.04	--	1	1	32	291	6887	774	7661
Rajasthan												
2015-16	456	9	2365	2	20	--	189	3040	428	5808	4754	10562
2016-17	494	7	2322	34	3	--	147	3007	452	6229	4495	10724
2017-18	571	6	2075	5	3	--	134	2794	566	6125	4478	10604
2018-19	592	9	2626	3	1	--	136	3368	610	6054	4967	11021
2019-20	649	13	2514	4	1	--	197	3377	741	6760	5028	11789
Tamil Nadu												
2015-16	137	21	--	--	0.35	4	398	560	42	2874	700	3575
2016-17	94	11	0.01	--	0.33	2	399	505	41	2189	656	2845
2017-18	144	21	0.07	--	0.04	1	404	569	39	2560	718	3278
2018-19	134	24	0.02	--	0.07	1	409	568	39	2467	716	3183
2019-20	132	29	0.00	--	0.13	0	408	570	49	2677	733	3410
Telangana												
2015-16	117	9	1	--	27	11	5	170	206	1629	398	2028
2016-17	150	17	3	--	21	5	11	207	176	2592	416	3008
2017-18	156	15	3	--	19	3	11	207	262	2669	503	3172
2018-19	121	17	4	--	15	2	13	172	268	2653	478	3131
Tripura												
2015-16	0.3	0.02	3	--	--	--	--	3	--	114	3	117
2016-17	0.7	0.2	3	--	0.02	--	0.02	4	--	114	4	118
2017-18	0.5	--	2	--	--	--	--	3	--	114	3	117
2018-19	0.6	0.2	2	--	--	--	--	3	--	114	3	117
Uttar Pradesh												

State/ UTs/ Year	Groundnut	Sesamum	Rapeseed & Mustard	Linseed	Soybean	Sunflower	Others	Total Oilseeds	Cotton	Total Food Crops	Total Non- Food Crops	Total Irrigated Area under all crops
2015-16	6	11	524	0.4	0.3	2	2	546	9	19489	1393	20882
2016-17	6	11	534	0.7	0.3	2	2	557	9	20219	1414	21633
2017-18	7	11	537	0.6	0.3	2	2	559	9	20182	1414	21596
2018-19	7	11	548	0.5	0.3	2	2	570	9	20258	1422	21681
Uttarakhand												
2015-16	0.03	0.03	6	--	0.3	--	0.4	7	--	510	31	541
2016-17	0.02	0.02	7	--	0.3	--	0.5	8	--	510	33	542
2017-18	0.03	0.02	6	--	0.3	--	0.3	7	--	511	31	543
2018-19	0.03	0.03	6	0.01	0.2	--	--	6	--	508	32	540

Source: www.aps.dac.gov.in

15.5 Average Major Nutrient Removal by Oilseed Crops/tonne Yield under Field Conditions (N, P₂O₅, K₂O etc.)

Crop	kg uptake / t produce					
	N	P ₂ O ₅	K ₂ O	S	Ca	Mg
Groundnut	58	19	30	7	20.5	13.3
Mustard	32	16	41	17	42	8.7
Raya	64	20	53	16	56.5	9.5
Taramira	70	26	61	20.7	19.3	9.3
Soybean	70	30	57	6.7	14	7.6
Safflower	38	8	22	12.6	...	...
Sesame	51	22	64	11.7	37.5	15.8
Sunflower	63	19	126	11.7	68.3	26.7
Linseed	60	18	54	5.6	31.2	13.1
Castor	40	9	16	...	...	...

Source: Tandon and Sekhon, 1988; Pasricha and Tandon, 1993; Hegde, D. M. 1998.

15.6 Average Major Nutrient Removal by Oilseed Crops/tonne Yield under Field Conditions (Zn, Fe, Mn, Cu)

Crop	g uptake/t produce			
	Zn	Fe	Mn	Cu
Groundnut	109	2284	93	36
Mustard	100	1123	95	17
Raya	58	635	169	21
Taramira	16	708	153	29
Soybean	77	346	83	30
Sesame	168	793	115	117
Sunflower	47	1075	-	-
Linseed	46	664	177	30

Source: Hegde, D. M. 1998.

15.7 Nutrient Uptake in Some Cropping Systems Involving Oilseeds

Cropping systems (t/ha)	Nutrient uptake			
	N	P ₂ O ₅	K ₂ O	Total
Sorghum (3.6) - Groundnut (2.2)	216	74	184	474
Maize (3.0) - Mustard (2.0)	127	70	177	374
Cotton (2.0) - Sunflower (1.8)	203	90	376	669
Soybean (1.5) - Potato (26.0) - Wheat (4.0)	305	177	345	827
Sorghum (4.0) - Sunflower (1.5) - Groundnut (2.0)	301	121	385	807
Rice (4.8) - Mustard (1.4)	142	77	203	422
Rice (5.2) - Groundnut (1.9)	215	95	213	523
Rice (4.8) - Rice (5.7) - Groundnut (1.8)	316	153	369	838
Rice (4.7) - Rice (5.6) - Sesame (0.7)	243	131	354	728

Cropping systems (t/ha)	Nutrient uptake			
	N	P ₂ O ₅	K ₂ O	Total
Maize (2.8) - Potato (27.0) - Sunflower (1.9)	296	110	479	885
Pearl millet (2.1) - Mustard (1.9)	107	58	148	313
Soybean (1.9) - Wheat (4.8)	252	100	267	619
Rice (4.8) - Linseed (0.8)	144	69	187	400
Fodder Sorghum (18.9) - Potato – (24.0) - Sunflower (1.8)	296	121	481	898
Sunflower (1.6) - Groundnut (3.4)	299	97	304	700

15.8 Selected State-wise Water Rates for Oilseed (Flow Irrigation) in India (w.e.f. 11.02.1988 to 31.03.2010)

States/UTs	Date of Enforcement	Season/Category/Source	Water Rates Rs./Hectares
Andhra Pradesh	01.07.1996	First Irrigated Dry Crop	247
		Second and Third Dry Crop	247
Bihar	17.01.1995	Rabi Season (Perennial)	98.8
		Rabi Season (Non-Perennial)	74
Chhattisgarh	15.06.1999	Groundnut (Rabi), Sunflower	247
		Groundnut (Kharif)	123
Delhi	N.A.	Rabi Season	44
Goa	11.02.1988	Government Canals	100
Gujarat	01.01.2007	Kharif Season (Groundnut)	160
		Summer Season (Groundnut)	160
	27.07.2000	Bhakra Command-Category 'B' (Groundnut)	86
		Bhakra Command -Category 'C' (Til)	98
Haryana		Bhakra Command -Category 'D' (Mustard)	123
		Yamuna Command-Category 'B' (Groundnut)	86
		Yamuna Command-Category 'C' (Till)	98
Himachal Pradesh	01.04.2009 to 31.03.2010	Yamuna Command-Category 'D' (Mustard)	111
		Kharif Season (Oilseed)	28
Jharkhand	14.11.1995	Perennial	98
		Non-Perennial	74
Jammu & Kashmir	01.04.2000	Gravity Scheme in Jammu	37
Karnataka	13.07.2000	Groundnut	148
		Sunflower	148
	01.11.2005	Groundnut and Soybean during Kharif	50
Madhya Pradesh		Groundnut and Soybean during Rabi	75
		Till	50
		Mustard and Sunflower	75
Maharashtra	01.07.2003	Rabi Season (Groundnut)	724
		Kharif Season (Groundnut)	476
		Hot Weather Season	1438

States/UTs	Date of Enforcement	Season/Category/Source	Water Rates Rs./Hectares
Manipur	Aug-03	Rabi Season Mustard	45
Orissa	05.04.2002	Rabi Crop (Groundnuts)	170
		Rabi Crop (Oilseeds and Mustard)	60
Rajasthan	24.05.1999	Pre-1952 Non-Inundation Schemes	88
		Perennial & Post-1952 Improved Schemes	113
		Pre-1952 Non-Inundation Schemes	64
		Groundnut (Rabi and Kharif)	312
Tripura	01.10.2003	Oilseeds Schedule-I Source	212
	18.09.1995	Schedule-II Source	114
Uttarakhand	18.09.1995	Schedule-III Source	69
		Schedule-IV Source	40

Source: Central Water Commission Report (12695)

15.9 Selected State-wise Water Rates for Oil seed (Lift Irrigation) Arranged by Government in India (w.e.f. 11.02.1988 to 31.03.2010)

States/UTs	Date of Enforcement	Season/Category/Source	Water Rates Rs./Hectares
Delhi	N.A.	Rabi Season	44.46
		Lift from Government Canals	200
		Bhakra Command-Category 'B' Cultivation of Groundnut	43.23
		Bhakra Command-Category 'C' Cultivation of Til	49.4
Goa	01.02.1988	Bhakra Command-Category 'D' Cultivation of Mustard	61.75
		Yamuna Command-Category 'B' Cultivation of Groundnut	43.23
		Yamuna Command-Category 'C' Cultivation of Til	49.4
		Yamuna Command-Category 'D' Cultivation of Mustard	55.58
Himachal Pradesh	01.04.2009 to 31.03.2010	Kharif Season Oilseeds	56.34
Jammu & Kashmir	21.04.2005	Lift Irrigation Schemes	111.2
		Kharif Groundnut	50
		Til	50
Madhya Pradesh	01.11.2005	Rabi Groundnut	75
		Mustard	75
		Sunflower	75
Manipur	Aug-03	Rabi Season Mustard	45
		Pre-1952 Non-Inundation Schemes	177.84
		Perennial & Post-1952 Improved Schemes	227.24
Rajasthan	24.05.1999	Pre-1952 Inundation Schemes	128.44
		Pre-1952 Non-Inundation Schemes	44.46
		Perennial & Post 01.01.1952 improve the Scheme	56.81
		Pre 1952 inundation Scheme	32.11
Tripura	01.10.2003	Groundnut (Kharif)	312.5
		Oilseeds Schedule-I Source	106
Uttarakhand	18.09.1995	Schedule-II Source	57
		Schedule-III Source	35
		Schedule-IV Source	20

Source: Central Water Commission Report (12695)

16. Achievements in Oilseeds Sector

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16.1 Targets and Achievements of Annual Oilseeds Production in India

(Million Tonnes)

Year	Target	Achievement	Gap
XIth Plan	160	144	-15.3
2015-16	33	25	-7.75
2016-17	35	31	-3.72
2017-18	35	31	-4.19
2018-19(*)	36	32	-3.74
2019-20(*)	36	33	-2.68
2020-21	26	23	-2.62

Source: Agricultural Statistics at a Glance 2020, DES, MA&FW, GOI, (*) 4th Advance Estimates

16.2 State-wise Target and Achievement of Area Expansion under ISOPOM, NMOOP, OPEA & NFSM in India

(Area in Hectare)

States	2015-2016		2016-2017		2017-2018		2018-19 (P)		2019-20 (P)	
	T	A	T	A	T	A	T	A	T	A
Andhra Pradesh	12500	5284	12500	6002	11500	6157	12000	6508	8000	6642
Arunachal Pradesh	1200	0	1500	750	1215	843	1738	1159	1500	374
Assam	560	560	1500	465	1000	814	1914	NR	300	0
Chhattisgarh	1500	1500	2500	1288	1500	884	2000	775	460	226
Goa	0	9	0	0	20	0	20	0	0	9
Gujarat	311	573	451	217	550	428	608	245	600	389
Karnataka	2000	1151	1600	966	1500	1120	1600	1475	1700	1350
Kerala	100	5	50	9	50	6	50	2	0	8
Maharashtra	0	0	0	0	0	0	0	0	0	0
Mizoram	3361	2981	3000	1669	2400	896	1400	608	500	111
Nagaland	550	140	1200	1032	1000	800	1000	500	1100	1100
Odisha	1744	1374	1260	1918	2050	812	1527	715	750	463
Tamil Nadu	1511	623	1500	801	1500	906	1200	741	600	451
Telangana	2000	434	3000	673	2000	1413	1930	870	2400	2133
India	27337	14634	30061	15790	26285	15044	26987	13598	17910	13257

Source: Agricultural Statistics at a Glance 2020 Ministry of Agriculture & Farmers Welfare, Govt. of India

Abbr: T: Target; A: Achievement; (P): Provisional; NA: Not Available;

ISOPOM: Integrated Scheme of Oilseeds, Pulses, Maize and Oil Palm, NMOOP: National Mission on Oilseeds and Oil Palm, OPAE: Oil Palm Area Expansion, NFSM: National Food Security Mission

16.3 State-wise Funds Allocation, Released and Expenditure under National Mission on Oilseeds and Oil Palm (NMOOP) in India

(Rs. in Crore)

State/UT	2015-2016		
	Allocation	Released	Expenditure
Andhra Pradesh	53	40	32
Arunachal Pradesh	4	2	1
Assam	16	9	0
Bihar	2	2	1
Chhattisgarh	8	3	4
Goa	--	--	--
Gujarat	16	6	11
Haryana	10	8	1
Himachal Pradesh	--	--	--
Jammu and Kashmir	2	--	0.4
Jharkhand	4	--	1
Karnataka	22	13	17
Kerala	0.2	0.02	0.03
Madhya Pradesh	43	26	23
Maharashtra	20	20	18
Manipur	1	1	1
Meghalaya	--	--	--
Mizoram	13	5	5
Nagaland	2	1	1
Odisha	8	6	5
Punjab	1	--	--
Rajasthan	49	35	33
Sikkim	1	0.3	0.3
Tamil Nadu	9	8	8
Telangana	10	10	7

Achievements in Oilseeds Sector

State/UT	2015-2016		
	Allocation	Released	Expenditure
Tripura	4	3	3
Uttar Pradesh	19	13	9
Uttarakhand	1	1	1
West Bengal	13	10	7
India	330	221	189

State/UT	2016-17			2017-2018			2018-2019		
	Allocation	Released	Expenditure	Allocation	Released	Expenditure	Allocation	Released	Expenditure
Andhra Pradesh	52	31	20	42	20	35	53	42	32
Arunachal Pradesh	6	5	3	6	1	3	10	7	--
Assam	19	--	--	25	11	3	34	0	14
Bihar	2	--	5	6	1	0.5	12	0	1
Chhattisgarh	10	4	2	13	8	7	22	6	3
Goa	--	--	--	0.05	0.04	-	0	--	--
Gujarat	40	23	20	29	10	16	25	22	22
Haryana	8	--	--	6	--	2	4	--	1
Himachal Pradesh	--	--	--	--	--	--	--	--	--
Jammu and Kashmir	1	--	--	1	--	--	1	1	0.3
Jharkhand	4	1	1	6	5	4	7	1	1
Karnataka	21	16	13	18	12	12	14	10	10
Kerala	0.1	--	0.02	0.09	--	--	0	--	0.01
Madhya Pradesh	98	26	25	60	5	14	31	5	8
Maharashtra	59	37	36	48	27	28	49	40	34
Manipur	2	1	--	1	--	--	2	1	1
Meghalaya	0.5	--	--	1	1	--	2	--	--
Mizoram	14	11	11	13	5	5	12	12	10
Nagaland	6	5	5	6	4	4	7	3	3
Odisha	10	8	9	14	10	8	20	11	14

Achievements in Oilseeds Sector

State/UT	2016-17			2017-2018			2018-2019		
	Allocation	Released	Expenditure	Allocation	Released	Expenditure	Allocation	Released	Expenditure
Punjab	1	--	--	1	--	--	1	--	--
Rajasthan	60	25	40	61	21	33	56	28	25
Sikkim	--	--	--	0.3	--	--	1	0.1	0.1
Tamil Nadu	9	8	8	11	10	9	14	12	11
Telangana	11	0	13	12	--	3	10	3	0
Tripura	1	1	1	1	1	1	2	1	1
Uttar Pradesh	17	4	9	16	7	9	19	10	8
Uttarakhand	1	1	--	1	0.3	0.2	1	0.4	0.3
West Bengal	13	5	9	31	19	19	52	30	30
India	465	211	229	431	179	217	457	243	230

Note : * : Under Integrated Scheme of Oilseeds, Pulses, Oil Palm and Maize (ISOPOM)

Source : Lok Sabha Unstarred Question No. 1356, dated on 28.07.2015,

Lok Sabha Unstarred Question No. 1341, dated on 28.07.2015,

Lok Sabha Unstarred Question No. 402, dated on 01.12.2015,

Lok Sabha Unstarred Question No. 3365, dated on 18.12.2015,

Lok Sabha Unstarred Question No. 2898, dated on 15.03.2016,

Lok Sabha Unstarred Question No. 1499, dated on 03.05.2016,

Lok Sabha Unstarred Question No. 885, dated on 07.02.2017,

Lok Sabha Unstarred Question No. 2611, dated on 01.08.2017,

Lok Sabha Unstarred Question No. 3669, dated on 08.08.2017

Lok Sabha Unstarred Question No. 1335, dated on 18.12.2018,

Lok Sabha Unstarred Question No. 45, dated on 11.12.2018,

Lok Sabha Unstarred Question No. 3433, dated on 01.01.2019

16.4 Development of Gross Bank Credit on Edible Oil and Vanaspati

(Rs.Crore)

Year	Outstanding as on last reporting Friday in March			
	Edible Oils & Vanaspati	Others	Food Processing	(%) of Edible Oil & Vanaspati over Total Food Industry
2015-16	19916	86617	150088	13
2016-17	18361	90922	145523	13
2017-18	21117	100839	155359	14
2018-19	21343	101044	157058	14
2019-20	20100	96800	1,51,600	13
2020-21	17980	100440	149383	12

Source: Reserve Bank of India Handbook of Statistics on Indian Economy

16.5 Number of Oilseeds Germplasm Accessions Conserved in the National Gene Bank

(In number)

Crop /	2015	2016	2017	2018	31-Aug-21
Crop Group					
Oilseeds	57685	57973	58571	58832	61,839
All Crops	419312	430573	434946	439717	4,54,836

Source: MoA & FW, DARE & ICAR-NBPGR

16.6 Oilseeds Gross Area Sown and Insured under All Insurance Schemes in India

Year	Gross Area Sown*	Area Insured	% age of Area Insured
2015-16	283	132	46
2016-17	283	126	44
2017-18	283	119	42
2018-19	283	115	40

Source: Ministry of Agriculture & Farmers Welfare, Govt. of India. (ON1936)

Agricultural Statistics at a Glance 2020 Ministry of Agriculture & Farmers Welfare, Govt. of India

17. Growth rates

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17.1 All India Compound Growth Rates of Area, Production and Yield of Oilseed Crops in India

(% Per Annum)

Crop	2010-11 to 2019-2020 (*)		
	Area	Production	Yield
Soybean	1.14	-0.55	-1.67
Rapeseed & Mustard	-0.79	1.58	2.32
Groundnut	-1.72	2.46	4.24
Sesame	-2.7	-0.63	2.12
Castor	-4.12	-1.23	3.01
Linseed	-1.99	-1.25	0.79
Sunflower	-13.55	-11.85	1.96
Niger	-6.63	-5.37	1.38
Safflower	-17.62	-18.03	-0.51
Total Oilseeds	-0.91	0.51	1.43

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

(*) third Advance Estimates

17.2 Index Numbers of Area, Production and Yield of Oilseed Crops in India

(Base T.E. 2007-08=100)

Crop	Weights	2015-16		
		Area	Prod.	Yield
Groundnut	4.1	74	92	124
Castor Seed	0.5	140	187	134
Niger Seed	0.1	59	66	113
Sesamum	0.5	112	127	113
Rapeseed & Mustard	3.6	87	95	110
Linseed	0.1	59	75	127
Safflower	0.1	36	23	64
Sunflower	0.8	23	22	95
Soybean	3.6	140	92	66
Total Oilseeds	13.3	95	93	97
All Crops	100	117	121	108

Crop	Weights	2016-17			2017-18			2018-19 (*)			2019-20		
		Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Groundnut	4.1	86	102	118	79	126	160	77	91	118	79	137	175
Castor Seed	0.5	106	147	138	109	168	155	100	130	130	138	198	143
Niger seed	0.1	60	76	127	51	62	123	45	57	128	32	37	116
Sesamum	0.5	96	111	116	91	112	124	92	112	123	93	112	120
Rapeseed & Mustard	3.6	92	111	121	90	118	131	94	131	139	102	128	125
Linseed	0.1	73	110	151	73	104	142	65	95	147	42	65	155

Growth rates

Crop	Weights	2016-17			2017-18			2018-19 (*)			2019-20		
		Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Safflower	0.1	41	41	100	23	24	103	11	10	91	12	13	106
Sunflower	0.8	18	18	103	13	16	122	12	16	138	11	16	139
Soybean	3.6	135	141	104	124	117	94	136	147	108	146	120	82
Total Oilseeds#	13.3	97	111	115	91	115	125	95	114	121	101	122	121
All Crops	100	113	133	118	113	139	124	111	137	123	115	142	124

Source: Agricultural Statistics at a Glance 2020. Directorate of Economics & Statistics, DAC&FW.

(#) Includes groundnut, rapeseed & mustard, sesamum, linseed, castor seed, nigerseed, safflower, sunflower and soybean

(*) 4th Advance Estimates

17.3 Growth Rates of Area of Oilseed Crops Compared to Previous Year

(Percent)

Crop	2015-16	2016-17	2017-18	2018-19	2019-20	Average growth during 2010-11 to 2019-20
Soybean	6	-4	-8	8	10	2
Rapeseed & Mustard	-1	6	-2	2	12	3
Groundnut	-4	16	-8	-3	2	-1
Sesame	12	-15	-5	-10	14	-1
Castor	-3	-24	2	-9	39	7
Linseed	-8	24	0	-47	4	-4
Sunflower	-17	-22	-26	-8	-13	-16
Niger	8	2	-15	-29	-13	-9
Safflower	-27	13	-43	-44	13	-13
Total Oilseeds	2	0	-6	1	9	

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

17.4 Growth Rates of Production of Oilseed Crops Compared to Previous Year

(Percent)

Crop	2015-16	2016-17	2017-18	2018-19	2019-20	Average growth during 2010-11 to 2019-20
Soybean	-17	54	-17	21	-15	4
Rapeseed & Mustard	8	16	6	10	-1	4
Groundnut	-9	11	24	-27	48	13
Sesame	3	-12	1	-9	-5	3
Castor	-6	-21	14	-24	54	10
Linseed	-19	47	-6	-43	22	0.2
Sunflower	-32	-15	-12	-3	-2	-12

Growth rates

Crop	2015-16	2016-17	2017-18	2018-19	2019-20	Average growth during 2010-11 to 2019-20
Niger	-2	15	-18	-36	-9	-5
Safflower	-41	77	-41	-55	77	-4
Total Oilseeds	-8	24	1	0	3	

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

17.5 Growth Rates of Yield of Oilseed Crops Compared to Previous Year

(Percent)

Crop	2015-16	2016-17	2017-18	2018-19	2019-20	Average growth during 2010-11 to 2019-20
Soybean	-22	59	-10	13	-23	2
Rapeseed & Mustard	9	10	8	7	-12	2
Groundnut	-6	-5	35	-25	45	12
Sesame	-8	3	7	1	-17	4
Castor	-4	3	12	-16	11	3
Linseed	-12	19	-6	8	17	5
Sunflower	-17	9	18	6	13	6
Niger	-10	12	-3	-10	4	2
Safflower	-19	56	3	-20	57	6
Total Oilseeds	-10	23	7	-1	-5	

Source: Directorate of economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, GOI

17.6 Agency-wise Average Annual Growth Rate of Production of Oilseeds and Vegetable Oil (2004-2025)

Crops	Actual Growth Rate (2004-2015)	FAO/OECD (2015-2024)	USDA (2016-2025)	FAPRI (2015-2021)	IGC (2016-2021)	NCAER India Stand-alone Model (2016-2025)	Cosimo Econometric Model (2016-2024)
Total Oilseeds	0.81	2.21	3.72	1.47	2.66	-3.47	-4.29
Vegetable Oil	-0.93	2.05	4.2	1.48	NA	1.88	-

Source: Ministry of Agriculture & Farmers Welfare, Govt. of India. (ON1928)

Abbr: FAO: Food and Agriculture Organization.

OECD: Organization of Economic Cooperation and Development.

USDA: United States Department of Agriculture.

FAPRI: Food and Agricultural Policy Research Institute.

IGC: International Growth Centre.

NCAER: National Council of Applied Economic Research

17.7 Growth Rates of Area of Oilseed Crops QE 2015-16 to 2019-20

States / UT	Groundnut	Castor seed	Niger seed	Sesamum	Rapeseed & Mustard	Linseed	Safflower	Sunflower	Soybean
Andhra Pradesh	-6.0	-4.6	-10.6	-8.6	12.3			-23.5	-6.7
Arunachal Pradesh	8.3	0.9		3.8	-0.6			20.3	2.1
Assam		-3.5	-3.1	0.5	-0.2	-1.9			
Bihar	9.8	16.3		-15.9	-3.7	-13.7	-6.2	-9.8	
Chhatisgarh	1.9		-5.1	-3.6	-3.8	-14.9	-34.8		-10.6
Goa	-46.2								
Gujarat	2.6	0.3	-53.3	-4.0	-2.2				6.0
Haryana	-11.8	86.5		-14.5	6.8			0.9	
Himachal Pradesh				-44.0	-0.2	-1.4			-0.9
Jammu & Kashmir				-2.1	-2.2	-3.2			
Jharkhand	1.9	-60.9	-10.4	11.3	6.9	9.2		-26.4	42.0
Karnataka	-4.9	-24.2	-43.4	-14.1		-30.8	-19.3	-21.0	1.9
Kerala	-28.2			10.1					
Madhya Pradesh	-2.6	-17.8	-48.3	-7.0	1.8	-24.1			1.0
Maharashtra	-4.8	-7.4	-9.8	-1.3	-1.6	-24.8	-26.3	-13.9	2.8
Manipur	-4.8				-2.4				-4.4
Meghalaya		-0.3		1.4	0.2	0.2			1.6
Mizoram				-3.7	-0.3				1.3
Nagaland	19.1	2.3		1.1	0.0	0.3		2.1	0.3
Odisha	-14.7	-10.1	-5.4	-7.6	-5.6	-16.1	-1.7	-0.4	
Punjab	13.4			-11.5	-0.4			-9.0	
Rajasthan	9.5	1.2		-6.2	3.2	-4.1			-2.7
Sikkim					-4.7				-3.2
Tamil Nadu	1.7	-0.8		7.6	-13.3			-15.2	
Telangana	-5.5	-17.2		6.8	2.9		-15.4	-28.1	-12.3
Tripura	13.8			13.6	4.5				
Uttar Pradesh	0.1			-9.3	6.0	8.2		2.9	-2.4
Uttarakhand	-1.2			2.5	1.6				-12.5
West Bengal	-4.6		-33.7	3.3	8.9	-12.7		-10.9	-19.2
Puducherry	-2.1			18.1					
Delhi					-0.7				
All India	-4.9	-1.0	-15.8	-5.2	3.7	-13.0	-25.5	-17.2	0.9

17.8 Growth Rates of production of Oilseed Crops QE 2015-16 to 2019-20

States / UT	Groundnut	Castor seed	Niger seed	Sesamum	Rapeseed & Mustard	Linseed	Safflower	Sunflower	Soybean
Andhra Pradesh	-1.5	-2.6	-15.5	-3.6	-4.2			-24.8	-7.6
Arunachal Pradesh	7.2	6.5		19.4	-1.9			30.5	9.7
Assam		-4.1	-4.8	1.2	-2.6	-2.5			
Bihar	9.9	16.6		-15.7	-0.5	-13.8	-6.0	-9.8	
Chhatisgarh	3.0		-1.5	0.2	-7.2	-17.7	-28.1		1.9

Growth rates

States / UT	Groundnut	Castor seed	Niger seed	Sesamum	Rapeseed & Mustard	Linseed	Safflower	Sunflower	Soybean
Goa	-44.5								
Gujarat	10.7	-1.4	-49.6	5.8	1.9				28.4
Haryana	-9.4	69.0		-3.5	10.5			1.9	
Himachal Pradesh	7.3			-38.3	2.6	6.0			5.0
Jammu & Kashmir				-2.8	14.2				
Jharkhand	7.7	-56.1	-14.0	9.4	9.2	8.8		-25.7	43.3
Karnataka	4.2	-14.5	-44.0	-2.4		-25.8	-11.0	-6.7	23.0
Kerala	-30.4			25.3					
Madhya Pradesh	2.0	-19.4	-47.8	-8.4	10.6	-11.4			-0.1
Maharashtra	-7.0	-3.1	-9.1	3.6	0.5	-15.6	-11.3	-11.4	18.6
Manipur	-4.6				-2.7				-3.2
Meghalaya		24.3		0.7	-0.4	1.5			0.9
Mizoram				-1.5	-7.9				2.5
Nagaland	19.6	2.2		1.4	0.0	0.5		2.4	0.5
Odisha	-9.2	-10.3	-4.1	-3.6	-0.9	-15.4	-1.3	1.4	
Punjab	14.7			-12.9	2.3				
Rajasthan	11.2	4.8		-5.4	6.3	-6.0			-11.8
Sikkim					-4.0				-3.1
Tamil Nadu	7.6	-0.7		13.3	-11.7			-13.8	
Telangana	4.3	10.6		32.0	1.2		-10.5	-15.5	1.0
Tripura	17.9			16.4	5.6				
Uttar Pradesh	8.2			-17.5	12.6			-4.2	0.8
Uttarakhand	-5.9			-0.6	2.4				-15.8
West Bengal	-3.2		-40.5	-8.3	11.7	-5.8		-16.3	-16.9
Puducherry	-39.9			16.5					
Delhi					-0.5				
All India	2.2	-0.4	-16.5	-5.8	7.7	-6.8	-15.8	-7.8	5.6

17.9 Growth Rates of yield of Oilseed Crops QE 2015-16 to 2019-20

States / UT	Groundnut	Castor seed	Niger seed	Sesamum	Rapeseed & Mustard	Linseed	Safflower	Sunflower	Soybean
Andhra Pradesh	4.8	2.2	-5.5	5.5	-14.7			-1.7	-0.9
Arunachal Pradesh	-1.1	5.5		15.0	-1.3			8.5	7.4
Assam		-0.7	-1.7	0.7	-2.5	-0.6			
Bihar	0.1	0.3		0.1	3.3	-0.1	0.2	0.0	
Chhatisgarh	1.1		3.8	3.9	-3.5	-3.3	10.2		13.9
Goa	3.3								
Gujarat	7.8	-1.7	8.0	10.2	4.1				21.1
Haryana	2.6	-9.4		12.9	3.5			1.0	
Himachal Pradesh				10.2	2.8	7.5			6.0
Jammu & Kashmir				-0.6	16.8				

Growth rates

States / UT	Groundnut	Castor seed	Niger seed	Sesamum	Rapeseed & Mustard	Linseed	Safflower	Sunflower	Soybean
Jharkhand	5.7	12.5	-4.0	-1.8	2.1	-0.4		1.0	0.9
Karnataka	9.6	12.7	-1.0	13.6		7.2	10.4	18.1	20.8
Kerala	-3.0			13.8					
Madhya Pradesh	4.7	-1.9	1.0	-1.6	8.7	16.8			-1.0
Maharashtra	-2.2	4.6	0.8	4.9	2.2	12.2	20.2	3.0	15.4
Manipur	0.2				-0.3				1.2
Meghalaya		24.6		-0.7	-0.6	1.3			-0.7
Mizoram				2.3	-7.6				1.2
Nagaland	0.3	-0.1		0.3	0.0	0.2		0.3	0.2
Odisha	6.5	-0.2	1.3	4.3	5.0	0.8	0.3	1.8	
Punjab	1.2			-1.7	2.7				
Rajasthan	1.6	3.6		0.9	3.1	-2.0			-9.4
Sikkim					0.7				0.1
Tamil Nadu	5.7	0.1		5.3	1.9			1.7	
Telangana	10.3	33.5		23.6	-1.6		5.8	17.4	15.3
Tripura	3.6			2.5	1.0				
Uttar Pradesh	8.1			-9.1	6.2			-6.9	3.3
Uttarakhand	-4.7			-3.0	0.8				-3.7
West Bengal	1.5		-10.3	-11.2	2.6	7.9		-6.0	2.9
Puducherry	-38.7			-1.3					
Delhi					0.1				
All India	7.4	0.6	-0.8	-0.7	3.9	7.2	13.0	11.3	4.6

18. Seed Production

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18.1 Crop Wise Breeder Seed Indent and Production under AICRP-NSP (Crops) and ICAR Seed Project

(In qtls)

Crop	2015-16		2016-17		2017-18		2018-19		2019-20	
	Indent	Prod.	Indent	Prod.	Indent	Prod.	Indent	Prod.	Indent	Prod.
Soybean	32988	17376	21811	17755	22219	12388	14526	15476	17898	13838
Sunflower	2	17	3	26	5	19	26	38	4	45
Groundnut	11938	14457	13296	14436	12818	15415	12197	12138	11030	12147
Linseed	144	230	182	229	61	117	376	456	169	245
Safflower	536	241	47	88	15	57	164	167	26	91
Sesame	87	81	70	64	48	52	92	133	36	58
Niger	17	13	39	44	25	25	36	26	17	16
Castor	29	52	25	23	17	40	21	41	56	82
Rapeseed-Mustard										
Mustard	141	372	75	211	161	304	83	190	68	144
Toria	36	72	46	101	14	82	17	48	21	51
Ghobi Sarson	6	17	8	20	10	22	6	19	20	23
Yellow Sarson	0	0	0	0	1	1				
Brown Sarson	2	2	2	2	1	3	3	4	3	4
Raya	0.4	5	8	43	14	39				
Rai	17	28	46	93	3	30				
Karan Rai	0.2	1	1	1	4	4	0.4	1	1	1
Taramira	0	0	0	0	0	0	0	0	0	0
Total	45942	32964	35659	33134	35415	28596	27567	28872	29433	26862

Source: Report on AICRP-NSP (Crops) and ICAR Seed Production

18.2 Crop-wise Distribution of Certified / Quality Seeds in India

(In lakh qtls)

Crops	2015-2016	2016-17	2017-18	2018-19	2019-20
Groundnut	18.0	19.9	27.4	15.6	19.2
Rapeseed & Mustard	1.2	2.4	2.8	1.9	1.9
Sesame	0.2	0.3	0.2	0.2	0.3
Sunflower	0.2	0.2	0.3	0.1	0.1
Soybean	27.2	26.5	26.0	30.0	31.0
Linseed	0.0	0.1	0.0	0.1	0.1
Castor Seed	0.6	0.6	0.5	0.4	0.5
Safflower	0.1	0.1	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0
Total	47.4	50.0	57.2	48.3	53.1

Source: Agricultural Statistics at a Glance, 2020; Department of Agriculture, Cooperation & Farmers Welfare

18.3 State-wise Replacement Increase of Oilseed Crops

(In Per cent)

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Sunflower	Cotton
					V/H	V/H
Andhra Pradesh	2008	50	--	100	-/100	-/100
	2009	61	--	100	-/100	-/100
	2010	63	--	100	-/100	-/100
	2011	62	--	100	-/100	-/100
Arunachal Pradesh	2008	--	--	--	--	--
	2009	--	--	--	--	--
	2010	--	--	--	--	--
	2011	70	36	68	93	--
Assam	2008	--	24	--	--	--
	2009	--	60	--	--	--
	2010	--	16	--	--	--
	2011	--	26	--	--	--
Bihar	2008	--	55	--	--	--
	2009	--	43	--	--	--
	2010	--	46	--	--	--
	2011	--	47	--	--	--
Chattisgarh	2008	3	26	47	18	--
	2009	4	30	62	--	--
	2010	2	47	58	--	--
	2011	3	25	64	--	--
Gujarat	2008	2	76	--	--	26/100
	2009	3	83	--	--	86/100
	2010	4	97	--	--	63/100
	2011	4	100	--	--	65/100
Haryana	2008	--	76	--	--	80
	2009	--	--	--	--	--
	2010	--	--	--	--	--
	2011	--	--	--	--	--
Himachal Pradesh	2008	--	80	59	--	--

Potential of minor oilseeds

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Sunflower	Cotton
Jammu & Kashmir	2009	--	83	43	--	--
	2010	--	96	73	--	--
	2011	--	83	29	--	--
	2008	--	12	--	--	--
	2009	--	7	--	--	--
	2010	--	35	--	--	--
	2011	--	42	--	--	--
Jharkhand	2008	--	15	--	--	--
	2009	--	--	--	--	--
	2010	--	58	--	--	--
Karnataka	2011	--	21	--	--	--
	2008	10	--	69	25/100	21
	2009	25	--	84	20/99.9	21/98
Kerala	2010	22	--	88	27/100	25/100
	2011	29	--	89	35/102	36/109
	2008	10	--	--	--	--
Madhya Pradesh	2009	--	--	--	--	--
	2010	--	--	--	--	--
	2011	--	--	--	--	--
	2008	0.5	21	19	0.5	0.84/100
Maharashtra	2009	0.7	20	24	0.55/-	0.64/100
	2010	0.4	30	24	--	5/100
	2011	1.0	43	30	--	--
Manipur	2008	5	--	58	42.00/-	42/100
	2009	4	--	59	-/90.65	43/99.75
	2010	6	--	62	-/94.07	46/99.52
	2011	3	--	58	--	61/100
Meghalaya	2008	22	--	14	--	--
	2009	--	--	--	--	--
	2010	35	--	24	--	--
Mizoram	2011	36	--	27	--	--
	2008	--	--	95	--	--
	2009	--	--	93	--	--
Nagaland	2010	--	--	97	--	--
	2011	--	--	62	--	--
	2008	85	--	10	--	--
Orissa	2009	90	--	31	--	--
	2010	80	--	30	--	--
	2011	--	--	--	--	--
Orissa	2008	--	--	--	--	--
	2009	43	--	21	--	--
	2010	45	--	22	--	--
	2011	26	--	34	--	--
Orissa	2008	24	13	--	5	1
	2009	31	27	--	24	62
	2010	19	30	--	60	66
Orissa	2011	32	32	--	64	66

Potential of minor oilseeds

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Sunflower	Cotton
Punjab	2008	--	61	--	--	93
	2009	--	--	--	--	95
	2010	--	--	--	--	99
	2011	--	64			106
Rajasthan	2008	5	78	18	--	70/100
	2009	9	94	21	--	72/100
	2010	13	87	30	--	98/100
	2011	6	85	28	--	58.33/-
Tamil Nadu	2008	6	--	--	13	100
	2009	9	--	--	4	66/100
	2010	9	--	--	8	80/100
	2011	12	--	--	37	88/109
Tripura	2008	14	50	56	56	56
	2009	8	91	56	56	56
	2010	56	69	56	56	56
	2011	56	56	56	56	56
Sikkim	2008	--	--	--	--	--
	2009	--	--	--	--	--
	2010	--	--	--	--	--
	2011	--	75	6	--	--
Uttarakhand	2008	--	--	20	--	--
	2009	--	18	17	--	--
	2010	--	42	36	--	--
	2011	--	1907	9	--	--
Uttar Pradesh	2008	3	59	35	78	67
	2009	4	41	46	75	67
	2010	12	69	62	78	17
	2011	19	64	45	73	73
West Bengal	2008	37	37	--	--	--
	2009	38	38	--	--	--
	2010	40	40	--	--	--
	2011	40	41	--	--	--
All India	2008	17	53	35	44	12
	2009	23	75	39	51	12
	2010	25	64	36	61	10
	2011	23	79	63	32	33/100

Source: <http://seednet.gov.in/>

18.4 Seed Rate, Seed Yield and Multiplication Ratios in Oilseeds

Oilseeds	Seed Rate (kg/ha)	Seed Yield (qtl./ha)	Multiplication Ratio
Castor	13	8	0.08
Groundnut	100-150	8	01:08
Linseed	25	--	01:50
Rapeseed & Mustard	5	5	0.11
Safflower	12	7	0.08
Sesame	5	13	0.22
Soybean	63	10	01:16

Oilseeds	Seed Rate (kg/ha)	Seed Yield (qtl./ha)	Multiplication Ratio
Sunflower	20	--	01:50
Cotton Seed	13	6	01:50

Source: <http://seednet.gov.in/>

18.5 Crop-wise Requirement and Availability of Oilseeds Certified / Quality Seeds

(Lakh quintals)

Crop	2015-16		2016-17		2017-18		2018-19		2019-2020	
	Req.	Av.	Req.	Av.	Req.	Av.	Req.	Av.	Req.	Av.
Castor	1	1	1	1	1	1	1	1	0.4	0.5
Rapeseed/ Mustard	3	3	2	2	2	3	2	3	2	3
Groundnut	24	24	23	25	24	25	26	29	21	26
Niger	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.03	0.03	0.04
Sesame	0.3	0.4	0.3	0.4	0.5	0.5	0.5	0.6	0.4	0.4
Linseed	0.1	0.04	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Soybean	31	23	29	30	36	40	29	28	31	34
Sunflower	0.5	0.5	0.4	0.4	0.2	0.2	0.3	0.4	0.2	0.2
Safflower	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Oilseeds	59	51	56	59	64	69	59	62	49	54
Cotton	2	2	2	2	3	3	2	2	2	2
Cereals Total	215	236	226	260	234	280	226	259	224	256
Pulses Total	30	27	32	31	31	36	35	44	35	39
Grand Total	337	344	353	380	371	419	354	399	387	431

Req: Requirement; Av: Availability

Source: Department of Agriculture, Cooperation & Farmer's Welfare, GOI; 2020

Rajya Sabha Unstarred Question No. 2654, dated on 16.12.2011,

Lok Sabha Unstarred Question No. 2404, dated on 12.03.2013.

Lok Sabha Unstarred Question No. 380, dated on 25.11.2014 &

Lok Sabha Unstarred Question No. 4933, dated on 23.07.2019 &

Lok Sabha Unstarred Question No. 3538, dated on 10.12.2019.

18.6 Crop-wise Requirement and Availability of Oilseeds Certified / Quality Hybrid Seeds in India

(In '000 tonnes)

Crops	2015-2016		2016-2017		2017-2018		2018-19		2019-20	
	Req.	Av.	Req.	Av.	Req.	Av.	Req.	Av.	Req.	Av.
Sunflower	4	5	6	6	1	1	3	4	2	2
Safflower	0	0	0	0	0.03	0.03	0	0	0	0
Castor	6	6	5	6	5	5	5	5	2	3
Cotton	19	20	19	20	20	22	18	19	18	21
Total	211	259	182	224	235	264	225	259	212	259

Req: Requirement; Av: Availability

Source: Agricultural Statistics at a Glance, 2020 Department of Agriculture, Cooperation & Farmer's Welfare, GOI

18.7 Indian Minimum Seed Certification Standards for Oilseed Crops

Factor	Standards for each class	
	Foundation	Certified
Castor		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Other crop seeds (maximum)	None	None
Weed seeds (maximum)	None	None
Other distinguishable varieties (maximum)	5/kg	10/kg
Germination (minimum)	70%	70%
Moisture (maximum)	8.00%	8.00%
For vapour-proof containers (maximum)	5.00%	5.00%
Sunflower		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Husk less seeds (maximum)	2.00%	2.00%
Other crop seeds (maximum)	None	10/kg
Total Weed seeds (maximum)	5/kg	10/kg
Objectionable weed seeds (maximum)	None	None
Seeds infested with <i>Orobanche Cumana</i>	None	None
Guss. Non-Wallr. (Maximum)		
Germination (minimum)	70%	70%
Moisture (maximum)	9.00%	9.00%
For vapour-proof containers (maximum)	7.00%	7.00%
Safflower		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Other crop seeds (maximum)	None	None
Total weed seeds (maximum)	5/kg	10/kg
Objectionable weed seeds (maximum)	None	None
Germination (minimum)	80%	80%
Moisture (maximum)	9.00%	9.00%
For vapour-proof containers (maximum)	7.00%	7.00%
Groundnut		
Pure seed (minimum)	96.00%	96.00%
Inert matter (maximum)	4.00%	4.00%
Other crop seeds (maximum)	None	None
Weed seeds (maximum)	None	None
Other distinguishable varieties (maximum)	5/kg	10/kg
Germination (minimum) (kernels hand shelled)	70%	70%
Moisture (maximum) (kernels hand shelled)	9.00%	9.00%
For vapour-proof containers (maximum) (kernels hand shelled)	5.00%	5.00%
Indian Rapeseed and Mustard		
Pure seed (minimum)	97.00%	97.00%
Inert matter (maximum)	3.00%	3.00%
Other crop seeds (maximum)	10/kg	20/kg
Other distinguishable varieties (maximum)	0.10%	0.50%
Total Weed seeds (maximum)	10/kg	20/kg

Potential of minor oilseeds

Factor	Standards for each class	
	Foundation	Certified
Objectionable weed seeds (maximum)	5/kg	10/kg
Germination (minimum)	85%	85%
Moisture (maximum)	8.00%	8.00%
For vapour-proof containers (maximum)		
Mustard	5.00%	5.00%
Rapeseed	7.00%	7.00%
Linseed		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Other crop seeds (maximum)	10/kg	20/kg
Weed seeds (maximum)	10/kg	20/kg
Other distinguishable varieties (maximum)	5/kg	10/kg
Germination (minimum)	80%	80%
Moisture (maximum)	9.00%	9.00%
For vapour-proof containers (maximum)	7.00%	7.00%
Niger		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Other crop seeds (maximum)	10/kg	20/kg
Other distinguishable varieties (maximum)	10/kg	20/kg
Weed seeds (maximum)	10/kg	20/kg
Germination (minimum)	80%	80%
Moisture (maximum)	9.00%	9.00%
For vapour-proof containers (maximum)	5.00%	5.00%
Sesame		
Pure seed (minimum)	97.00%	97.00%
Inert matter (maximum)	3.00%	3.00%
Other crop seeds (maximum)	10/kg	20/kg
Weed seeds (maximum)	10/kg	20/kg
Other distinguishable varieties (maximum)	10/kg	20/kg
Germination (minimum)	80%	80%
Moisture (maximum)	9.00%	9.00%
For vapour-proof containers (maximum)	5.00%	5.00%
Soybean		
Pure seed (minimum)	98.00%	98.00%
Inert matter (maximum)	2.00%	2.00%
Other crop seeds (maximum)	None	10/kg
Weed seeds (maximum)	5/kg	10/kg
Other distinguishable varieties (maximum)	10/kg	40/kg
Germination (minimum)	70%	70%
Moisture (maximum)	12.00%	12.00%
For vapour-proof containers (maximum)	7.00%	7.00%
Taramira		
Pure seed (minimum)	97.00%	97.00%
Inert matter (maximum)	3.00%	3.00%
Other crop seeds (maximum)	10/kg	20/kg

Factor	Standards for each class	
	Foundation	Certified
Other distinguishable varieties (maximum)	10/kg	20/kg
Total weed seeds (maximum)	10/kg	20/kg
Objectionable weed seeds (maximum)	5/kg	10/kg
Germination (minimum)	85%	85%
Moisture (maximum)	8.00%	8.00%
For vapour-proof containers (maximum)	5.00%	5.00%

Source: The Central Seed Certification Board, Dept. of Agriculture & Co-operation, Ministry of Agriculture, GOI.

18.8 Seed Rate of Sowing for Oilseed Crops

Crop	(Kg/ha)	
	Variety Seed Rate	Hybrid Seed Rate
Groundnut	140-160	
Rapeseed & Mustard	03-May	3.5
Soybean	65-75	
Sunflower	5	5
Sesame	5	
Niger	5	
Safflower	7	
Linseed	30 for seed type	
	45 for dual purpose type	
Castor	5	5

Source: Agricultural Statistics at a Glance 2020; ICAR

18.9 Conversion Factors between Important Primary and Secondary Oilseed Commodities

Commodity	Conversion Factor
Groundnut	
Kernel to Nuts in Shell	70 Percent
Oil to Nuts in Shell	28 Percent
Oil to Kernels Crushed	40 Percent
Cake to Kernels Crushed	60 Percent
Sesamum	
Oil to Seeds Crushed	40 Percent
Cake to Seed Crushed	60 Percent
Rapeseed & Mustard	
Oil to Seeds Crushed	33 Percent
Cake to Seed Crushed	67 Percent
Linseed	
Oil to Seeds Crushed	33 Percent
Cake to Seed Crushed	67 Percent
Castor Seed	
Oil to Seeds Crushed	37 Percent
Cake to Seed Crushed	63 Percent
Cotton Seed	
Cotton Lint Production	1/3 of Kapas Production
Cotton Seed Production	2/3 of Kapas Production
	2 times of Cotton Lint Production

Commodity	Conversion Factor
Oil to Seeds Crushed	14 to 18 Percent
Cake to Seed Crushed	82 to 86 Percent
Niger Seed	
Oil to Seeds Crushed	28 Percent
Cake to Seed Crushed	72 Percent
Kardi Seed	
Oil to Seeds Crushed	40 Percent
Cake to Seed Crushed	60 Percent
Mahua Seed	
Oil to Seeds Crushed	36 Percent
Cake to Seed Crushed	64 Percent
Neem Seed	
Oil to Seeds Crushed	45 to 50 Percent
Cake to Seed Crushed	50 to 55 Percent
Soybean Seed	
Oil to Soybean Seed Crushed	18 Percent
Meal to Soybean Seed Crushed	73 Percent
Hull from Soybean Seed Crushed	8 Percent
Wastage from Soybean Seed Crushed	1 Percent

Source: Agricultural Statistics at a Glance 2020; ICAR

18.10 Certification Standards for Oilseeds Distinguishable Varieties

S. No.	Crop	Foundation	Maximum number of Seeds/kg	
			Certified	
1	Soybean	5	10	
2	Castor/Hybrid	5	10	
3	Rapeseed/Mustard	10	20	
4	Linseed	10	20	
5	Niger	10	20	
6	Taramira	10	20	
7	Sesame	10	20	

Source: <http://seednet.gov.in/>

18.11 Number of Oilseed Crops Varieties Released by ICAR

Name of Crop	2015-16	2016-17	2017-18	2018-19	2019-20
Groundnut	3	8	4	11	6
Linseed	2	7	4	7	3
Rape seed /Mustard	4	16	8	7	5
Sunflower	--	5	3	3	1
Sesame	2	--	--	4	1
Safflower	1	--	--	3	2
Soybean	4	54	5	10	2
Niger	--	2	2	--	--
Castor	--	3	2	4	1
Cotton	1	23	13	23	--
Total	17	118	41	72	21

Source: DARE/ICAR Annual Reports; Division of Crop Science, ICAR, New Delhi.

19. Potential of minor oilseeds

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19.1 Production, Processing & Export of Minor Oilseeds & Minor Oils

('000 mt)

Year	Processed	Production		Export	
		Oil	Meal	Meal	Oil
Sal Seed					
2015-16	37.9	5.0	32.5	--	2.1
2016-17	20.4	2.5	17.7	--	1.3
2017-18	30.2	4.0	26.0	--	1.9
2018-19	22.2	3.1	19.1	--	1.4
2019-20	52.0	7.0	45.0	--	2.8
2020-21	11.2	1.5	9.7	--	1.9
Mango Kernel					
2015-16	5.9	0.2	5.6	--	0.2
2016-17	5.1	0.4	4.7	--	0.3
2017-18	5.9	0.5	5.5	--	0.2
2018-19	2.7	0.2	2.5	--	0.3
2019-20	7.6	0.7	6.9	--	0.2
2020-21	--	--	--	--	0.6
Mahua Seed					
2015-16	8.9	0.6	8.2	0.0	--
2016-17	9.1	0.6	8.4	0.0	--
2017-18	8.7	0.6	8.0	0.0	--
2018-19	2.6	0.3	2.3	--	--
2019-20	11.0	0.8	10.1	0.0	--
2020-21	6.6	0.5	6.1	--	--
Kokum Seed					
2015-16	--	--	--	--	0.1
2016-17	--	--	--	--	0.01
2017-18	--	--	--	--	0.01
2018-19	--	--	--	--	--
2019-20	--	--	--	--	--
2020-21	0.08	0.007	0.07	--	0.03
Neem Seed					
2015-16	30.1	3.5	25.2	--	0.6
2016-17	25.9	3.0	21.8	--	0.7
2017-18	21.9	2.9	18.1	--	0.6
2018-19	25.9	3.5	21.3	--	0.6
2019-20	17.3	2.2	14.3	--	0.4
2020-21	9.7	1.5	7.9	--	0.8
Karanja Seed					
2015-16	0.2	0.03	0.2	--	--
2016-17	0.1	0.01	0.1	--	--
2017-18	0.02	0.003	0.02	--	--
2018-19	--	--	--	--	--
2019-20	--	--	--	--	--
2020-21	0.1	0.0	0.1	--	--
Total					

Year	Processed	Production		Export	
		Oil	Meal	Meal	Oil
2015-16	83.2	9.3	71.7	0.03	3.0
2016-17	60.6	6.4	52.7	0.05	2.3
2017-18	66.7	8.0	57.7	0.05	2.7
2018-19	53.5	7.1	45.3	--	2.3
2019-20	87.9	10.8	76.3	0.02	3.4
2020-21	27.7	3.4	23.3	--	3.2

Source: SEA Hand Book 2021

19.2 Gestation, Productive Period & Employment in Tree Borne Oil Plantations

Tree Borne Oil Plantation	Seed Harvesting	Gestation Period (Years)	Productive Life (Years)	Employment (Man day/ha)
Jatropha	September-December	<1	50	250
Jojoba	June-August	5-7	>100	NA
Karanja	Throughout the year	3-10	100	125
Kusum	June-July	NA	NA	
Mahua	August-September	NA	NA	120
Neem	June-August	5-6	>50	60
Simarouba	April-May	4-6	NA	NA
Sal	May-July	25-30	100	80

Source: SEA Hand Book 2021; Min.of Non-conventional Energy Sources. Govt. of India.

19.3 Estimated Potential and Actual Production of Seeds and Oils from Tree Borne Oilseeds

(Lakh Tonnes)

Oilseed Species	Seed	Oil	Seed	Oil
Sal (<i>Shorea robusta</i>)	60-70	6-8	2-3	0.25
Mahua (<i>Madhulea indica</i>)	4.3	2.4	0.7-0.85	0.25-0.30
Neem (<i>Azadirachta indica</i>)	4.3	1-3	11.5	0.2-0.3
Karanja (<i>Pongamia pinnata</i>)	1.4	0.3-1	0.25-0.3	0-0.7-0.1
Kusum (<i>Schleichera oleosa</i>)	0.9-1.9	0.29	0.2	0.06
Khakan (<i>Salvador. oleoides</i>)	0.46	0.15	NA	NA
Undi (<i>Calophyllum inophyllum</i>)	0.11	0.07	NA	NA
Nahor (<i>Mesua ferrea</i>)	0.09	0.03	NA	NA
Kokum (<i>Garcinia indica</i>)	0.02	0.01	NA	NA
Others	2	--	--	--
Total	70-11	11-17	4.92	1.02

Source: SEA Hand Book 2021

19.4 Cost of Cultivation of some Important Tree Borne Oilseeds

Name of the TBO Plant	No. of Plant / ha	Approx. cost of Cultivation in 1st year (Rs./ha)	Ave. Income in 10-12 (Rs. ha/year)
Jatropha	2500	41000.00	116268.00
Karanja	500	20000.00	13984.00

Wild Apricot	400	16000.00	50000.00
Cheura	250	14000.00	70000.00 – 120000.00
Simarouba	500	24000.00	19076.00
Mahua	200	8756.00	12700.00
Kokum	500	15000.00	18812.00
Jojaba	2500	35000.00	104100.00
Neem	400	10000.00	17000.00
Tung	500	13000.00	34000.00
Olive	200	48000.00	NA

Source: Technical Bulletin No: 2-2015 of ICAR-CARI, Jhansi on *Tree Borne Oilseeds for Oil and Biofuel*:

Note: The cost-economics may vary depending upon various agro-climatic conditions, wage rate, input cost etc.

19.5 Available Potential of Tree Borne Oilseeds in India

TBO	(Metric Tonnes)
Sal	6200000
Mahua	520000
Neem	500000
Karanja	111000
Rubber	79000
Khakhan	44000
Kusum	45000
Dhuba Kernel	13000
Undi	11467
Others*	200000
Total	7723467

Ministry of Non-Conventional Energy Sources, GOI

* Marati, Palash, Pisa, Ratanjyothi, tumba, teak etc.

19.6 List of TBO Processing Equipment's developed under NOVOD Board

S. No:	Equipment	Capacity (kg/hr)	Approx. cost (Rs.)
1	Neem Depulper (Manual)	20	40,000.00
2	Karanja Decorticator	50	1,00,000.00
3	Tung Decorticator	40	1,00,000.00
4	Jatropha Decorticator (Manual)	40	50,000.00
5	Neem Decorticator (Mechanical with 2 H.P. Motor)	100	80,000.00
6	Jojoba Seed Dehuller	60	50,000.00
7	Mahua Seed Decorticator	50	50,000.00
8	Wild Apricot Decorticator	45	50,000.00
9	Depulper (for Simarouba, Cheura, Kokum, Olive)	20	40,000.00
10	Decorticator (for Simarouba, Cheura, Kokum, Olive)	40	50,000.00
11	Dehuller (for Simarouba, Cheura, Kokum, Olive)	50	50,000.00
12	Drier (for Simarouba, Cheura, Kokum, Olive)	40	50,000.00
13	Cleaner / grader (for Simarouba, Cheura, Kokum, Olive)	100	30,000.00
14	Oil Expeller for TBO's	1 t day ⁻¹ (TPD)	2,00,000.00

Source: Technical Bulletin No: 2-2015 of ICAR-CARI, Jhansi on *Tree Borne Oilseeds for Oil and Biofuel*

19.7 Estimated Potential of Minor Tree Borne Oilseeds

TBOs	Estimated Production Lakh mt	Current utilization Mt	Oil content (%) by wt.
<i>Sal (Shorea robusta)</i>	25	2788	12-13(8)
<i>Neem (Azadiracta indica)</i>	10	12203	20(DF)
<i>Mahua (Madhuca indica)</i>	7	7004	35(S)
<i>Mango Kernel (Mangifera indica)</i>	5	8062	7.5-11(K)
<i>Karanja (Pongamia pinnata)</i>	2	1502	27-39(K)
<i>Jatropha (Jatropha curcus)</i>	1	Neg.	30-40(8)
<i>Kusum (Aschleicheria oleosa)</i>	0.8	572	34(8)
<i>Pilu (Salvadora oleoides)</i>	0.5	Neg.	33(8)
<i>Thumba (Citrillus collcynthes)</i>	0.5	Neg.	21(8)
<i>Rubber-seed</i>	0.33	Neg.	45(8)
<i>Dhupa (Vateria indica)</i>	0.12	Neg.	18(8)
<i>Undi (Calophyllum phyllum)</i>	0.1	Neg.	45(8)
<i>Nahor (Mesuaferrea)</i>	0.09	Neg.	33(8)
<i>Cheura</i>	0.05	Neg.	60(K)
<i>Kokum (Garcinia indica)</i>	0.02	245	33-44(K)
<i>Wild Apricot (Prunus armeniaca)</i>	0.02	Neg.	45-50(K)
<i>Jjoba (Simonds lachinensis)</i>	N.A.	Neg.	50(8)
<i>Simarouba (Simarouba glauca)</i>	N.A.	Neg.	60(K)
<i>Tung (Aleurites fordii)</i>	N.A.	Neg.	50(K)
Total	52.53	32376	

Source: SAARC Oils & Fats Today, September - October 2004

19.8 List of Important Non-traditional Oilseeds

Botanical name	Common name	Distribution	Oil content (%)	Uses
<i>Actinodaphne hookeri</i>	Pisa	Evergreen forests of Eastern & Western Ghats, Orissa, Karnataka, Sikkim and North East India up to 1500m	48	Soaps, Industrial chemicals (for cosmetics, textiles, pharmaceuticals & perfumery), Biodiesel
<i>Aisandra butyracea</i>	Phulwara	Sub Himalayan tract and outer Himalayas from Kumaon to Sikkim	42-47	Cocoa butter substitute, vanaspati, medicinal
<i>Aleurites fordii</i>	Tung oil	Assam, Bengal, Bihar, Karnataka	50-60*	Industrial
<i>Armeniaca vulgaris</i>	Wild Apricot	Jammu & Kashmit, Himachal Pradesh, Uttarakhand	30	Wood for agricultural implements, thatching mud houses as fuel & as biofuel, fruits for edible, processing & alcoholic drink, oil for cooking
<i>Aphanamixis polystachya</i>	Amoora	Eastern Uttar Pradesh, Bengal, Assam, Western Ghats, Andaman & Nicobar Islands	35*	Soaps, illuminations, medicinal
<i>Azadirachta indica</i>	Neem	Throughout India, more in the dry forests of Andhra Pradesh, Tamil Nadu & Karnataka	35-40*	Medicinal, Biodiesel
<i>Bombaxceiba</i>	Silk cotton	Throughout India	20	Illumination
<i>Calophyllum phyllum</i>	Undi	Along sea coasts	50-73*	Illumination, soap, Biodiesel
<i>Ceiba pentandra</i>	Safed semul/ white silk cotton	Throughout the hotter parts of India	28	Illumination soaps, edible grade oil

Potential of minor oilseeds

Botanical name	Common name	Distribution	Oil content (%)	Uses
<i>Citrullus colocynthis</i>	Tumba	Arid & semi-arid regions of Haryana, Gujarat & Rajasthan	21	Soap, Biodiesel
<i>Diplokné mabutyracea</i>	Cheura	Uttarakhand	42-47	Pulp, wood as fuel, resin used in glue, seeds shee or butter, extracted for edible purpose and biofuel, fruit sweet and edible
<i>Garcinia indica</i>	Kokum	Forests of Western Ghats in South Maharashtra & slopes of Nilgiri hills	33-44*	Cocoa butter substitute, soaps, candles
<i>Holarrhena antidysenterica</i>	Kurchi	Throughout India	19-30	Medicinal
<i>Holarrhenakurzii</i>	Chaulmoogra	Evergreen forests of upper Assam & Tripura	33-55*	Medicinal, soaps
<i>Hydnocarpus wightiana</i>	Maroti	Forests of Western Ghats	63*	Medicinal (for leprosy), Biodiesel
<i>Jatropha curcas</i>	Ratanjyot	Throughout India (dry tropical areas)	30-40	Industrial, medicinal, soap, Biodiesel, cake as manure, medicine, insecticide, biogas production
<i>Juglans regia</i>	Wild walnut	Jammu & Kashmir, Hills of Himachal Pradesh, Uttar Pradesh & Assam	60-70*	Edible, printing inks, oil colours, varnishes, soaps, Biodiesel
<i>Litsea cubeba</i>	Siltimur	Eastern Himalayas, Assam, Manipur	22	Illumination
<i>Litsea glutinosa</i>	Garbijaur	Punjab, Himachal Pradesh, Assam, Bengal, South India	35-48	Candles, soap
<i>Litsea mono petala</i>	Monopetala	Medha East, North and Central India (up to 1200m)	21	Candles, medicinal
<i>Madhuca indica</i>	Mahua	Central India, plains of North India	35	Cocoa butter substitute, vanaspati, soap
<i>Madhuca longifolia</i>	S. Indian Mahua	Monsoon forests of Western Ghats, Deccan & other parts of South India	35	Soap, illumination
<i>Mallotus philippinensis</i>	Kamala	Himalayan foothills, Bengal, Orissa, Madhya Pradesh and Maharashtra	35*	Paints, varnish
<i>Mangifera indica</i>	Mango	Throughout India (tropical regions)	11*	Cocoa butter substitute, vanaspati
<i>Melia azedarach</i>	Persian lilac	Sub-Himalayan tract (up to 1800m)	30	Soaps, hair oil
<i>Mesua ferrea</i>	Nahor	Forests of North East India, Karnataka, Kerala	45	Soaps, lubricants, illumination, medicinal, Biodiesel
<i>Michelia champaca</i>	Champa	Assam, Bengal, Western Ghats	32	Medicinal, Biodiesel
<i>Mimus opselengi</i>	Maulsari	Central and S. India	16-25*	Edible, illumination, Biodiesel
<i>Moringa oleifera</i>	Sainjna	Indigenous to N.W. India, cultivated throughout India	21-24	Edible, Illumination, lubricant, cosmetics, medicinal
<i>Myrica nagi</i>	Kaiphall	Sub tropical Himalayas upto 2100 m.	20-25	Candles, soap, biodiesel
<i>Myristica malabarica</i>	False Nutmeg	Western Ghats (Konkan southwards)	40*	Illumination, soaps, medicinal
<i>Olea ferruginea</i>	Indian olive	Himalayas (up to 2400m)	15	Soaps, medicinal
<i>Perilla frutescens</i>	Bhanjira	Himalayas (up to 3500m), Assam, Bihar	45	Paints, varnishes, printing inks, enamels

Botanical name	Common name	Distribution	Oil content (%)	Uses
<i>Pongamia pinnata</i>	Karanja	Throughout India (up to 1200m)	27-39	Soaps, lubricants, illumination, industrial, Biodiesel
<i>Prinse piautilis</i>	Bhikal	Uttar Pradesh	37*	Edible, illumination, soaps, medicinal
<i>Prunus armeniaca</i>	Common apricot	Sub-temperate region of Jammu & Kashmir, Himachal Pradesh & Uttar Pradesh (1200 to 2500m)	45-50*	Medicinal, cosmetics, confectionery
<i>Prunus persica</i>	Peach	Kashmir, Himachal Pradesh, sub-montane tracts of Punjab, Uttar Pradesh	32-45*	Edible, pharmaceuticals, cosmetics, illumination
<i>Rhus succedanea</i>	Wax tree	Kashmir to Assam (up to 2500 m)	20-30*	Polish, candles
<i>Salvado raoleoides</i>	Pilu	Arid regions of Punjab & Western India	33	Soap, candles, Biodiesel
<i>Sapiumse biferum</i>	Chinese tallow	North & West India	53-64*	Soap, candles, paints, varnishes, plastics
<i>Schleichera oleosa</i>	Kusum	Forests of Sub-Himalayan tracts in Northern & Eastern parts of India	34	Soap, medicinal, illumination, lubricant, Biodiesel
<i>Shorea robusta</i>	Sal	Cent. Himalayas & foothills of Himalayas in sub temperate regions	13*	Cocoa butter substitute, soap, vanaspati
<i>Sima roubaglauca</i>	Aceituno	Andhra Pradesh, Karnataka, Maharashtra, Orissa, Tamil Nadu	60*	Cocoa butter substitute, soaps
<i>Simmondsia chinensis</i>	Jojoba	Gujarat, Haryana, Rajasthan	50	Lubricants, adhesives, pharmaceuticals, Biodiesel
<i>Vateria indica</i>	Dhupa	Forests of Western Ghats	20-22	Confectionery, soaps, candles, medicinal, Biodiesel
<i>Sima roubaglauca</i>	Simarouba	Karnataka, Andhra Pradesh and Telangana	60-70	Biodiesel, medicine, cake as manure, insecticide, biogas production, edible oil

Source: SEA Hand Book 2019: (*) oil % in kernel

19.9 Agro-climatic Zones and Improved Varieties / Accessions of Tree Borne Oilseeds

Jatropha (*Jatropha curcas* L.)

Origin : Central America
 Family : Euphorbiaceae
 Species : *Jatropha curcas*
 Vernacular name : Ratanjyot, Danti, Physic nut, Purging nut

Agroclimatic Zone	Improved Varieties/ Accessions
Eastern Himalayan Region	TFRI 01 (49.2%), MNJ-017(42.89 %), MNJ-017(42.89%), TCR-1(32.87%)
West Coast Plains & HillsRegion	PAT-1 (32.83%), ALP-1(32.10%)o
Upper Gangetic Plains Region	Bhimari, (36.10%), CSJ-3 (31.48 %), CSJ-6 from Allahabad (30.58 %), collection from Kanpur CSJ-10 (31.75 %), CSJ-11 (31.36 %), CSJ-23 (31.72 %), CSJ-24 (33.10 %), Collections from

	Lalitpur i.e. CSJ-14 (33.30 %), CSJ-15 (31.53 %), CSJ-16 (31.87 %), CSJ-17 (31.38 %), CSJ-20 (32.57 %)
Central Plateau & Hills Region	NRCJ158, NRCJ159, NRCJ124, NRCJ144, NRCJ145Raksla, Panna; Chapara, Seoni; Kherwani Chhindwara-1; Gessani Shivpuri -2; Gessani Shivpuri -1
Southern Plateau & Hills Region	TNMC 22, TNMC 33, TNMC 19,5 hybrids of TNAU Coimbatore
Frost tolerant genotype for Himachal Pradesh	Jwalaji Local , Haryana: JR-17

% Oil content in parenthesis

Pongamia (Pongamia pinnata)

Origin : Tropical and Temperate Asia
 Family : Fabaceae
 Species : Pongamia pinnata
 Vernacular name : Karanj, Beech, Pongam, Honge, Kanji

Agro climatic Zone	Improved Varieties/ Accessions
Eastern Plateaus & Hills Region	Baramunda , Mancheswar
Southern Plateau & Hills Region	KNR1-(29.31 %), KSR1(27.34%) and TCR-MD(27.2 %), TCR-CI-1, PT 1 and PT 2 of Dharwad
Central Plateau & Hills Region	NRCP-13(early flowering), NRCP 24, NRCP 26 (high yielding), IC 527952 (34%)
Eastern Plateaus & Hills Region	KKVPP-02(31.7%), KKVPP-17(42%)
Central Plateau & Hills Region	RPK 14
Western Plateau & Hills Region	RHRAK 50, RHRAK 44

% Oil content in parenthesis

Wild Apricot (Prunus armeniaca)

Origin : North-Eastern China
 Family : Rosaceae
 Species : Prunus armeniaca
 Vernacular name : Chuari, Zardalu, Khubani, Chola

Agroclimatic Zone	Improved Varieties/ Accessions
Western Himalayan Region & in some Eastern Himalayan Region	Shiplee Early, Kaisha, New Castle, St. Ambrose and Royal and improved CPTS collection from Kumaun University

Cheura (Diploknema butyracea)

Origin : Nepal and adjoining parts of India
 Family : Sapotaceae
 Species : Diploknema butyracea
 Vernacular name : Cheura, Phulware

Agro climatic Zone	Improved Varieties/ Accessions
Western Himalayan Region	Improved CPTS collection from Kumaun University

Simarouba (Sima roubaglauca)

Origin : Florida (United States)
 Family : Simroubaceae
 Species : Sima roubaglauca
 Vernacular name : Simarouba, Paradise tree, Aceituno, Bitterwood

Agroclimatic Zone	Improved Varieties/ Accessions
Southern Plateau & Hills Region	Palem-1, 2, 3,4
Central Plateau & Hills Region	HAUP-09, 13, 22, 28 ,
Western Plateau & Hills Region	PDKV SG-23, 25, 27, 30

Mahua (Madhuca indica)

Origin : Central and North India

Family : Sapotaceae
 Species : *Madhuca indica*
 Vernacular name : Mahua, Mahwa, Mowra, Illpai, Hippe, Yappa

Agroclimatic Zone	Improved Varieties/ Accessions
Central Plateau & Hills Region	NDMC9, NDMC 7, NDMC 10 & NDMC 3

Kokum (*Garcinia indica*)

Origin : Asia and Africa
 Family : Clusiaceae
 Species : *Garcinia indica*
 Vernacular name : Kokum, Mangosteen, Kokum butter tree, Amsol

Agroclimatic Zone	Improved Varieties/ Accessions
West Coast Plains & Hills Region	IC342301, Konkon Amrita (S-8). Other common varieties : Plain kokum, Salted kokum, Lonawala kokum, Pakali kokum, Khane kokum, Kholo kokum

Olive : (*Olea europaea*)

Origin : Africa
 Family : Oleaceae
 Species : *Olea europaea*
 Vernacular Name : Olive, Olea Europa

Agroclimatic Zone	Improved Varieties/ Accessions
Arid Zone	Arbequina Olive; Barnea Olive; Coratina Olive; Frantoio Olive; Koroneiki Olive; Picholine Olive and Picual Olive

Tung : (*Aleurites fordii*)

Origin : South China
 Family : Euphorbiaceae
 Species : *Vernicia fordii*
 Vernacular Name : Tung, Candlenut, Candleberry, China Wood Tree, Balucanut

Neem : (*Azadirachta indica*)

Origin : India
 Family : Meliaceae
 Species : *Azadirachta indica*
 Vernacular Name : Neem, Bevu, Tamaka, Tamabin, Margosa Tree, Veppu, Nimba, Vepu

Jjoba : (*Simmondsia chinensis*)

Origin : Northern America
 Family : Simmondsiaceae
 Species : *Simmondsia chinensis*
 Vernacular Name : Goad nut, Coffeeberry, Quinine nut, Wild hazel, Pig nut

Source: Technical Bulletin No: 2-2015 of ICAR-CARI, Jhansi on *Tree Borne Oilseeds for Oil and Biofuel*:

19.10 Limiting Characteristics of Tree Borne Oilseeds

Tree Borne Oilseed	Characteristics
Jatropha	<ul style="list-style-type: none"> Widely varying vegetative growth Seed yields per shrub low Low storing period for seeds

Tree Borne Oilseed	Characteristics
Jojoba	<ul style="list-style-type: none"> • <i>Innate dormancy</i> • <i>Low survival rate for direct seeding</i> • <i>Disagreeable odour on standing</i> • <i>Potential to grow as weed in uncultivated land</i> • <i>Difficulty in small scale chemical extraction of oil</i> • <i>Toxic seeds and cake</i> • <i>Maintenance of male and female tree ratio</i> • <i>Self polymerize in the presence of sunlight</i> • <i>Toxic compounds (simmondsins) make it currently</i> • <i>There are no improved varieties of jojoba</i> • <i>Susceptible to fungal wilts, Including Verticillium,</i> • <i>Fusarium. Pithium and Phytophthora</i> • <i>All seeds on a jojoba shrub do not mature at the same time</i> • <i>Production of seed varies greatly from plant to plant in a</i> • <i>Long maturing time for pods (nearly 10 months)</i> • <i>Disagreeable odour of the oil</i> • <i>Phenolic furoflavones in oil. making it more viscous and</i> • <i>Varying yield (2 - 90 kg seed per tree)</i> • <i>Longer time for germination {Nearly 40 days}</i>
Karanja	<ul style="list-style-type: none"> • <i>lower oil content (25 per cent)</i> • <i>Erratic flowering behavior</i> • <i>Hosts many pests and diseases thus making unsuitable for</i> • <i>Higher lateral spread of roots (around 9 m in 18 years)</i> • <i>Produce root sucker profusely negating inter cropping</i> • <i>Low quality of timber</i> • <i>Toxic seeds and cake</i> • <i>Fruit harvest coincides with monsoon</i>
Kusum	<ul style="list-style-type: none"> • <i>Hard oil</i> • <i>Lye content causing problem in effluent treatment</i> • <i>Disagreeable colour and taste of oil</i>
Mahua	<ul style="list-style-type: none"> • <i>Sharp increase in FFA in the oil of poorly stored karnes</i> • <i>Utility as virgin fat In soap manufacturing limited</i> • <i>Presence of toxic and bitter saponins</i> • <i>Poor yield (< 60 kg / tree / year)</i>
Neem	<ul style="list-style-type: none"> • <i>Stunted growth</i> • <i>Rapid deterioration of seeds and contamination with aflatoxin</i> • <i>Harvesting during wet season</i> • <i>Poor yield (< 60 kg / tree / year)</i>
Neem	<ul style="list-style-type: none"> • <i>Stunted growth</i> • <i>Rapid deterioration of seeds and contamination with aflatoxin</i> • <i>Harvesting during wet season</i> • <i>Low percentage of high yielder in total population (5-10%)</i>
Sima rouba	<ul style="list-style-type: none"> • <i>Wide variation in yield</i> • <i>Limited genetic base</i> • <i>Shallow side roots</i> • <i>Wide variation in yield</i>
Sal	<ul style="list-style-type: none"> • <i>Very long gestation period</i>

Tree Borne Oilseed	Characteristics
	<ul style="list-style-type: none"> • Irregular fruit bearing • Kernels extremely susceptible to attack by weevils • Low oil content (<15 percent)

Source: SEA Hand Book 2021

19.11 Some of the *Jatropha* Species found in India

Scientific Name	Common Name	Origin	Distribution in India	Desirable Attributes
<i>J. curcas</i> L.	Pinhao, French physic nut, purging nut, Sabudam, Barbados nut	South America (Peru)	Throughout the Country	High oil content, drought resistant frost tolerant, less attacked by insects and pests,
<i>J. integerrima</i> Jacq. (<i>J. panduraefolia</i> Andr., <i>J. acuminata</i> Desv., <i>J. hastata</i> Griseb.)	Fiddle-leaves <i>Jatropha</i>	Cuba	Throughout the Country	Xerophytic adaptation, resistant to diseases and pests except leaf webber and scale, photoperiod insensitive.
<i>J. glandulifera</i> Roxb. (<i>J. glauca</i> Vahl.)	--	India		Resistant to pests and diseases
<i>J. gossypifolia</i> L.	Bellyache Bush, Cotton leafed physique nut	Brazil	Throughout the Country	Resistant to scale, mites and leaf eating caterpillars, tolerant to saline soils
<i>J. multifida</i> L.	Coral plant, Finton, Spanish physique nut	S. America (Barbados)	Throughout the Country	Ornamental, photoperiod Insensitive, non-dehiscent capsules
<i>J. heterophylla</i> (<i>J. heynii</i>)	--	--	South India	Ephemeral
<i>J. nana</i>	--	--	Poona and Bombay	--
<i>J. podagrica</i> Hook	Gwatemala Rhubarb, Tartago or Gouty-stemmed <i>Jatropha</i> , Hanuman nagtaen	Central America (Panama)	Throughout the Country	Ornamental and adapts well to xerophytic conditions, photoperiod insensitive
<i>J. wightiana</i> (<i>J. peltata</i>) <i>J. villosa</i>	--	--	Deccan Peninsula, Coimbatore	--

Source: SEA Hand Book 2021

19.12 Salient Information on the prioritized Tree Borne Oilseeds (TBO's)

TBO's	Simarouba	Karanj	Kokum	Wild Apricot	Jojoba	Cheura	Neem	Mahua	Jatropha	Olive	Tung
Scientific Name	<i>Simarouba glauca</i>	<i>Pongamia pinnata</i>	<i>Garcinia indica</i>	<i>Armeniaca vulgaris</i>	<i>Simmondsia chinensis</i>	<i>Diploknemabuty racea</i>	<i>Azadirachta indica</i>	<i>Madhuca longicaulis</i>	<i>Jatropha curcas</i>	<i>Olea europaea</i>	<i>Vernicia fordii</i>
Habit	Medium sized tree	Medium sized tree	Tree	Medium sized tree	Shrub	Tree	Tree	Tree	Large Shrub	Small Tree	Tree
Flowering season	December-February	March-May	October - February	March	December - January	October – November	March –May	March- April	May- August	March- April	March
Harvest Season	February - April	January - March	March-June	May – June	June	June-July	June – November	June- August	August- October	October	Sept. - Nov.
Uses	Biodiesel, medicine, cake as manure, insecticide, biogas production, Edible oil	Biodiesel, cake as manure, green manure, soap production, leather industry, biogas production	Seed oil as biofuel, fruits in culinary purpose, confectionery, medicines as cosmetics	Wood for agricultural implement, thatching mud houses and as fuel & as biofuel, fruits for edible processing & alcoholic drink, oil for cooking	Biodiesel, lubrication, cosmetics, pharmaceutical, food related uses seed cake as animal feed, fertilizer	Pulp, wood as fuel, resin uses in glue, seeds-ghee or butter, extracted for edible purpose and biofuel, fruit sweet and edible	Biodiesel, medicine, cake as manure, agricultural equipments, insecticide, soap industry, biogas production	Biodiesel, medicine, cake as manure, agricultural equipment, soap industry, biogas production	Biodiesel, cake as manure, medicine, insecticide, biogas production	Biodiesel, culinary purpose	Biodiesel, Paint and industry
Yield stat at (Years)	4	5	7-8	5-6	4	8-10	20-40	10-40	01-02	2.5-4.0	01-02
Seed Yield (kg)	10-25	15-40	30-173	47	3-5	2-12	8	8-10	3	5-10	3-4
Oil (%)	60-70	27-39	22-25	30	50	42-47	30	33-43	30-40	60-70	30-40

Source: Technical Bulletin No: 2-2015 of ICAR-CARI, Jhansi on *Tree Borne Oilseeds for Oil and Biofuel*

20. Front line demonstrations

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20.1 Progress of Implementation of Front Line Demonstrations in Oilseed Crops during 2013-14 to 2019-20

Crop	2015-16		2016-17		2017-18		2018-19		2019-20		Total FLD's during 2013-14 to 2018-19	
	Appr.	Cond.	Appr.	Cond.	Appr.	Cond.	Appr.	Cond.	Appr.	Cond.	Appr.	Cond.
Groundnut	675	334	350	335	665	497	850	850	830	518	5015	3966
Rapeseed & Mustard	500	489	1800	1945	2140	2140	1600	2080	1405	1405	8445	9075
Soybean	1100	1144	1100	1137	1100	1142	900	1157	900	980	6500	6944
Castor	400	400	200	210	675	635	800	975	755	773	3730	3859
Linseed	500	493	900	902	1000	967	750	693	285	295	4435	4296
Sunflower	450	528	437	427	695	541	700	612	580	546	3962	3699
Safflower	568	568	755	755	700	530	750	577	270	234	4043	3670
Sesame	500	332	650	387	615	190	820	640	715	416	4290	2599
Niger	200	168	200	155	195	135	340	344	250	190	1805	1440
Cropping System	100	125	100	125	--	145	100	129	--	67		716
STCRC	--	--	--	--	--	--	--	--	--	--		
Total	4993	4581	6492	6378	7785	6922	7610	8057	5990	5357	42825	40224

Source: Year-wise Annual Progress Reports of crops, Appr: Approved; Cond: Conducted

20.2 State-wise Frontline Demonstrations Conducted during 2015-16 to 2019-20

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Castor	Linseed	Sunflower	Sesame	Safflower	Niger	PDCSR	STCR	Total
Andhra Pradesh	2015-16	65	--	--	100	--	140	--	75	--	22	--	402
	2016-17	40	--	10	--	--	25	--	20	--	--	--	95
	2017-18	35	--	--	180	--	--	--	--	--	--	--	215
	2018-19	85	--	--	383	--	100	10	20	10	--	--	608
	2019-20	25	--	--	198	--	75	10	40	--	--	--	348
	State Total	250	--	10	861	--	340	20	155	10	22	0	1668
Arunachal Pradesh	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	--	--	--	--	--	--	--	--	--
	2017-18	--	28	--	--	--	--	--	--	--	--	--	28
	2018-19	--	--	--	--	--	--	--	--	--	--	--	--
	2019-20	--	--	--	--	--	--	--	--	--	--	--	--
	State Total	--	28	--	--	--	--	--	--	--	--	--	28
Assam	2015-16	--	45	--	--	30	--	--	--	--	5	--	80
	2016-17	--	200	--	--	45	--	--	--	--	--	--	245
	2017-18	--	140	--	--	92	--	--	--	--	--	--	232
	2018-19	--	320	--	--	45	--	--	--	--	--	--	365
	2019-20	--	135	--	--	20	--	--	--	--	--	--	155
	State Total	--	840	--	--	232	--	--	--	--	5	--	1077
Bihar	2015-16	--	20	18	--	47	20	--	--	20	--	--	125
	2016-17	--	11	20	--	50	20	--	--	--	--	--	101
	2017-18	--	--	15	--	50	102	--	--	--	--	--	167
	2018-19	--	--	18	--	50	--	--	--	--	15	--	83
	2019-20	--	--	--	--	20	--	--	--	--	--	--	20
	State Total	--	67	71	--	217	185	30	--	70	31	8	679
Chhattisgarh	2015-16	--	--	10	--	40	--	--	25	--	--	--	75
	2016-17	--	--	10	--	90	--	--	30	--	--	--	130
	2017-18	--	--	10	--	115	--	--	25	--	--	--	150
	2018-19	--	--	10	--	45	--	--	20	--	25	--	100
	2019-20	--	--	10	--	30	--	--	20	--	--	--	60
	State Total	--	--	50	--	320	--	--	120	--	25	--	515
Gujarat	2015-16	25	15	15	50	--	--	20	30	13	38	--	206
	2016-17	20	44	48	20	-	--	20	30	10	-	--	192
	2017-18	42	56	23	50	--	--	20	30	10	--	--	231
	2018-19	195	52	24	52	--	--	30	--	30	25	--	408

Front line demonstrations

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Castor	Linseed	Sunflower	Sesame	Safflower	Niger	PDCSR	STCR	Total
Haryana	2019-20	43	30	24	77	--	--	30	--	20	--	--	224
	State Total	325	197	134	249	--	--	120	90	83	63	--	1261
	2015-16	-	40	--	55	--	--	--	--	--	--	--	95
	2016-17	--	40	--	30	--	--	--	--	--	--	--	70
	2017-18	--	40	--	70	--	--	--	--	--	--	--	110
	2018-19	--	40	--	55	--	--	15	--	--	--	--	110
	2019-20	--	35	--	75	--	--	--	--	--	--	--	110
	State Total	--	195	--	285	--	0	15	--	--	--	--	495
Himachal Pradesh	2015-16	-	20	21	--	10	--	--	--	--	6	--	57
	2016-17	--	32	27	--	25	--	--	--	--	--	--	84
	2017-18	--	28	34	--	25	--	--	--	--	--	--	87
	2018-19	--	59	42	--	25	--	--	--	--	4	--	130
	2019-20	--	30	36	--	15	--	--	--	--	--	--	81
	State Total	--	169	160	--	100	--	--	--	--	10	0	439
Jammu & Kashmir	2015-16	--	28	--	--	--	--	--	--	--	--	--	28
	2016-17	--	138	--	--	--	--	--	--	--	--	--	138
	2017-18	--	96	--	--	--	--	--	--	--	--	--	96
	2018-19	--	72	--	--	--	--	--	--	--	--	--	72
	2019-20	--	42	--	--	--	--	--	--	--	--	--	42
	State Total	--	376	--	--	--	--	--	--	--	--	--	376
Jharkhand	2015-16	--	--	20	--	--	--	20	--	25	--	--	65
	2016-17	--	--	20	--	--	--	40	--	40	--	--	100
	2017-18	--	251	20	--	75	--	--	--	30	--	--	376
	2018-19	--	26	20	--	25	--	30	--	--	--	--	101
	2019-20	--	78	20	--	15	--	--	--	30	--	--	143
	State Total	--	355	100	--	115	--	90	--	125	0	--	785
Karnataka	2015-16	40	--	75	35	15	90	60	210	20	12	--	557
	2016-17	50	--	120	35	45	74	51	215	--	--	--	590
	2017-18	85	--	20	50	50	24	--	120	--	--	--	349
	2018-19	135	--	60	61	45	138	45	250	20	--	--	754
	2019-20	70	--	10	70	20	85	11	35	--	--	--	301
	State Total	380	--	285	251	175	411	167	830	40	12	--	2551
Kerala	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	--	--	--	--	--	--	--	--	--
	2017-18	--	--	--	--	--	--	--	--	--	--	--	--
	2018-19	--	--	--	--	--	--	--	--	--	13	--	13
	2019-20	--	--	--	--	--	--	--	--	--	--	--	--

Front line demonstrations

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Castor	Linseed	Sunflower	Sesame	Safflower	Niger	PDCSR	STCR	Total
Madhya Pradesh	State Total	--	--	--	--	--	--	20	--	--	28	--	48
	2015-16	30	20	387	--	58	--	70	21	45	--	--	631
	2016-17	25	100	425	--	130	--	65	20	45	--	--	810
	2017-18	--	125	485	--	204	--	--	20	45	--	--	879
	2018-19	--	129	410	--	125	--	105	20	65	--	--	854
	2019-20	--	45	410	--	25	--	110	20	80	--	--	690
	State Total	55	419	2117	0	542	--	350	101	280	--	--	3864
Maharashtra	2015-16	65	20	395	--	40	95	60	156	45	--	--	876
	2016-17	80	30	205	--	90	65	50	158	40	--	--	718
	2017-18	105	30	219	--	65	95	35	160	30	--	--	739
	2018-19	125	30	165	--	90	108	50	152	35	--	--	755
	2019-20	--	--	--	--	--	--	--	--	--	--	--	--
	State Total	720	150	1094	--	385	509	304	996	250	5	--	4413
Meghalaya	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	--	--	--	--	--	--	--	--	--
	2017-18	--	74	10	--	--	--	--	--	--	--	--	84
	2018-19	--	--	10	--	--	--	--	--	--	--	--	10
	2019-20	--	30	170	12	35	50	35	75	40	--	--	447
	State Total	--	104	190	12	35	50	35	75	40	--	--	541
Manipur	2015-16	10	15	25	--	--	--	--	--	--	--	--	50
	2016-17	15	250	15	--	--	--	--	--	--	--	--	280
	2017-18	20	244	13	--	--	--	--	--	--	--	--	277
	2018-19	20	450	15	--	--	--	--	--	--	--	--	485
	2019-20	10	240	15	--	--	--	--	--	--	--	--	265
	State Total	75	1199	83	--	--	--	--	--	--	--	--	1357
Mizoram	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	--	--	--	--	--	--	--	--	--
	2017-18	--	--	--	--	--	--	--	--	--	--	--	--
	2018-19	--	--	--	--	--	--	15	--	--	--	--	15
	2019-20	--	--	--	--	--	--	--	--	--	--	--	--
	State Total	--	--	--	--	--	--	15	--	--	--	--	15
Nagaland	2015-16	--	--	--	--	40	--	--	--	--	--	--	40
	2016-17	--	--	10	--	35	--	--	--	--	--	--	45
	2017-18	--	--	--	--	--	--	--	--	--	--	--	--
	2018-19	--	--	--	--	38	--	--	--	--	--	--	38
	2019-20	--	--	--	--	15	--	--	--	--	--	--	--
	State Total	--	--	10	--	128	--	--	--	--	--	--	138

Front line demonstrations

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Castor	Linseed	Sunflower	Sesame	Safflower	Niger	PDCSR	STCR	Total
Orissa	2015-16	--	--	--	15	15	--	--	--	--	8	--	38
	2016-17	--	--	--	20	40	--	20	--	20	--	--	100
	2017-18	15	--	--	--	40	--	--	--	20	--	--	75
	2018-19	15	15	--	--	30	--	20	--	20	--	--	100
	2019-20	15	15	--	--	15	--	--	--	20	--	--	65
	State Total	45	30	--	35	140	--	40	--	80	8	--	378
Punjab	2015-16	--	35	10	--	6	53	21	--	--	12	--	137
	2016-17	--	62	10	--	25	50	50	--	--	--	--	197
	2017-18	--	51	9	--	25	38	20	--	--	--	--	143
	2018-19	--	50	10	--	--	42	30	--	15	17	--	164
	2019-20	--	15	10	--	25	50	15	--	--	--	--	115
	State Total	0	213	49	--	81	233	136	--	15	29	0	756
Rajasthan	2015-16	49	174	140	65	25	--	11	--	--	12	--	476
	2016-17	40	624	130	25	60	--	16	50	--	--	--	945
	2017-18	70	517	130	50	67	--	20	--	--	--	--	854
	2018-19	75	533	130	75	30	--	20	--	20	12	--	895
	2019-20	75	467	140	50	10	--	25	--	--	--	--	767
	State Total	309	2315	670	265	192	--	92	50	20	24	--	3937
Tamil Nadu	2015-16	30	--	10	50	20	20	30	--	--	10	--	170
	2016-17	25	--	10	25	--	--	5	--	--	--	--	65
	2017-18	65	--	10	25	--	10	--	--	--	--	--	110
	2018-19	100	--	--	49	--	20	50	--	50	--	--	269
	2019-20	125	--	--	25	--	20	40	--	--	--	--	210
	State Total	345	--	30	174	20	70	125	--	50	10	--	824
Telangana	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	35	--	123	--	142	--	--	--	300
	2017-18	--	--	10	195	--	150	--	145	--	--	--	500
	2018-19	--	--	10	300	--	50	20	85	--	18	--	483
	2019-20	--	15	10	266	--	66	10	44	--	--	--	411
	State Total	--	15	30	761	--	266	30	274	--	18	--	1394
Tripura	2015-16	--	--	--	--	--	--	--	--	--	--	--	--
	2016-17	--	--	--	--	--	--	--	--	--	--	--	--
	2017-18	--	96	--	--	--	--	--	--	--	--	--	96
	2018-19	--	--	--	--	--	--	15	--	--	--	--	15
	2019-20	--	--	--	--	--	--	--	--	--	--	--	--
	State Total	--	96	0	0	--	0	15	0	--	--	--	111
Uttarakhand	2015-16	--	17	18	--	--	25	--	--	--	--	--	60

Front line demonstrations

State	Year	Groundnut	Rapeseed & Mustard	Soybean	Castor	Linseed	Sunflower	Sesame	Safflower	Niger	PDCSR	STCR	Total
	2016-17	--	48	77	--	--	10	--	--	--	--	--	135
	2017-18	--	34	134	--	--	22	--	--	--	--	--	190
	2018-19	--	68	233	--	--	24	--	--	--	--	--	325
	2019-20	--	45	115	--	--	20	--	--	--	--	--	180
	State Total	--	212	577	--	--	101	--	--	--	0	0	890
Uttar Pradesh	2015-16	--	40	--	30	122	--	40	51	--	--	--	283
	2016-17	20	296	--	20	240	--	70	40	--	--	--	686
	2017-18	--	320	--	15	145	--	95	30	--	--	--	605
	2018-19	10	236	--	--	145	--	145	30	59	--	--	625
	2019-20	--	183	--	--	50	--	110	--	--	--	--	343
State Total	30	1035	--	35	580	--	420	100	59	--	--	2259	
West Bengal	2015-16	20	--	--	--	25	85	--	--	--	--	--	130
	2016-17	20	70	--	--	27	60	--	50	--	--	--	227
	2017-18	60	10	--	--	14	100	--	--	--	--	--	184
	2018-19	90	--	--	--	--	130	40	--	20	--	--	280
	2019-20	70	--	--	--	--	180	20	--	--	--	--	270
State Total	260	80	--	--	66	555	60	50	20	0	--	1091	
Year-wise Demonstrations conducted	2015-16	334	489	1144	400	493	528	332	568	168	125	--	4581
	2016-17	335	1945	1137	210	902	427	387	755	155	125	--	6378
	2017-18	497	2140	1142	635	967	541	190	530	135	145	--	6922
	2018-19	850	2080	1157	975	693	612	640	577	344	129	--	8057
	2019-20	518	1405	980	773	295	546	416	234	190	--	--	--
Total Demonstrations conducted		2534	8059	5560	2993	3350	2654	1965	2664	992	524	0	25938

Source: Year-wise Annual Progress Reports of crops, Apr: Approved; Cond: Conducted

20.3 Crop Wise Front Line Demonstrations Conducted during 2013-14 to 2019-20

Crop	State	2015-16	2016-17	2017-18	2018-19	2019-20	Total
Groundnut	Andhra Pradesh	65	40	35	85	25	533
	Gujarat	25	20	42	195	43	425
	Karnataka	40	50	85	135	70	527
	Madhya Pradesh	30	25	--	--		85
	Maharashtra	65	80	105	125	65	785
	Manipur	10	15	20	20	10	95
	Orissa	--	--	15	15	15	165
	Punjab	--	--	--	--		25
	Rajasthan	49	40	70	75	75	394
	Tamil Nadu	30	25	65	100	125	465
	Uttar Pradesh	--	20	--	10		30
	West Bengal	20	20	60	90	70	417
	Total		334	335	497	850	498	3946
Rapeseed & Mustard	Arunachal Pradesh	--	--	28	--	--	28
	Assam	45	200	140	320	135	840
	Bihar	20	11	--	--	--	67
	Gujarat	15	44	56	52	30	237
	Haryana	40	40	40	40	35	270
	Himachal Pradesh	20	32	28	59	30	219
	Jammu & Kashmir	28	138	96	72	42	432
	Jharkhand	--	--	251	26	78	365
	Madhya Pradesh	20	100	125	129	45	459
	Maharashtra	20	30	30	30	30	180
	Meghalaya	--	--	74	--	--	74
	Manipur	15	250	244	450	240	1249
	Orissa	--	--	--	15	15	40
	Punjab	35	62	51	50	15	293
	Rajasthan	174	624	517	533	467	2630
	Telangana					15	15
	Tripura	--	--	96	--	--	96
	Uttarakhand	17	48	34	68	45	244
	Uttar Pradesh	40	296	320	236	183	1217
	West Bengal	--	70	10	--	--	120
Total		489	1945	2140	2080	1405	9075
Soybean	Andhra Pradesh	--	10	--	--	--	30
	Bihar	18	20	15	18	--	71
	Chhattisgarh	10	10	10	10	10	70
	Gujarat	15	48	23	24	24	164
	Himachal Pradesh	21	27	34	42	36	199
	Jharkhand	20	20	20	20	20	140
	Karnataka	75	120	20	60	10	475
	Madhya Pradesh	387	425	485	410	410	2803
	Maharashtra	395	205	219	165	170	1264
Meghalaya	--	--	10	10	10	30	

Crop	State	2015-16	2016-17	2017-18	2018-19	2019-20	Total	
Castor	Manipur	25	15	13	15	15	103	
	Nagaland	--	10	--	--	--	10	
	Punjab	10	10	9	10	10	89	
	Rajasthan	140	130	130	130	140	816	
	Tamil Nadu	10	10	10	--	--	50	
	Telangana	--	--	10	10	10	30	
	Uttarakhand	18	77	134	233	115	600	
	Total		1144	1137	1142	1157	980	6944
	Andhra Pradesh	100	--	180	383	198	1051	
	Gujarat	50	20	50	52	77	415	
	Haryana	55	30	70	55	75	390	
	Karnataka	35	35	50	61	70	321	
	Madhya Pradesh	--	--	--	--	--	20	
	Maharashtra	--	--	--	--	12	12	
	Orissa	15	20	--	--	--	75	
	Rajasthan	65	25	50	75	50	395	
	Tamil Nadu	50	25	25	49	25	279	
	Telangana	--	35	195	300	266	796	
	Uttar Pradesh	30	20	15	--	--	105	
	Total		400	210	635	975	773	3859
Linseed	Assam	30	45	92	45	20	282	
	Bihar	47	50	50	50	20	316	
	Chhattisgarh	40	90	115	45	30	400	
	Himachal Pradesh	10	25	25	25	15	135	
	Jharkhand	--	--	75	25	15	169	
	Karnataka	15	45	50	45	20	220	
	Madhya Pradesh	58	130	204	125	25	586	
	Maharashtra	40	90	65	90	35	420	
	Nagaland	40	35	--	38	15	191	
	Orissa	15	40	40	30	15	170	
	Punjab	6	25	25	--	25	81	
	Rajasthan	25	60	67	30	10	248	
	Tamil Nadu	20	--	--	--	--	20	
	Uttar Pradesh	122	240	145	145	50	992	
	West Bengal	25	27	14	--	--	66	
	Total		493	902	967	693	295	4296
	Sunflower	Andhra Pradesh	140	25	--	100	75	616
		Bihar	20	20	102	--	--	185
		Haryana	--	--	--	--	--	20
		Karnataka	90	74	24	138	85	586
Maharashtra		95	65	95	108	50	559	
Punjab		53	50	38	42	50	333	
Tamil Nadu		20	--	10	20	20	115	
Telangana		--	123	150	50	66	389	
Uttarakhand		25	10	22	24	20	151	
Uttar Pradesh		--	--	--	--	--	70	
West Bengal	85	60	100	130	180	675		

Crop	State	2015-16	2016-17	2017-18	2018-19	2019-20	Total
Safflower	Total	528	427	541	612	546	3699
	Andhra Pradesh	75	20	--	20	40	520
	Chhattisgarh	25	30	25	20	20	200
	Gujarat	30	30	30	--	--	110
	Karnataka	210	215	120	250	35	890
	Madhya Pradesh	21	20	20	20	20	131
	Maharashtra	156	158	160	152	75	1076
	Rajasthan	--	50	--	--	--	50
	Telangana	--	142	145	85	44	416
	Uttar Pradesh	51	40	30	30	--	227
	West Bengal	--	50	--	--	--	50
	Total	568	755	530	577	234	3670
Sesame	Andhra Pradesh	--	--	--	10	10	20
	Bihar	--	--	--	--	--	30
	Gujarat	20	20	20	30	30	153
	Haryana	--	--	--	15	--	32
	Jharkhand	20	40	--	30	--	134
	Karnataka	60	51	--	45	11	270
	Kerala	--	--	--	--	--	20
	Madhya Pradesh	70	65	--	105	110	375
	Maharashtra	60	50	35	50	35	339
	Mizoram	--	--	--	15	--	15
	Orissa	--	20	--	20	--	60
	Punjab	21	50	20	30	15	206
	Rajasthan	11	16	20	20	25	135
	Tamil Nadu	30	5	--	50	40	158
	Telangana	--	--	--	20	10	30
	Tripura	--	--	--	15	--	15
	Uttar Pradesh	40	70	95	145	110	547
West Bengal	--	--	--	40	20	60	
	Total	332	387	190	640	416	2599
Niger	Andhra Pradesh	--	--	--	10	--	10
	Bihar	20	--	--	--	--	70
	Gujarat	13	10	10	30	20	123
	Jharkhand	25	40	30	--	30	240
	Karnataka	20	--	--	20	--	85
	Madhya Pradesh	45	45	45	65	80	350
	Maharashtra	45	40	30	35	40	290
	Orissa	--	20	20	20	20	80
	Punjab	--	--	--	15	--	15
	Rajasthan	--	--	--	20	--	20
	Tamil Nadu	--	--	--	50	--	50
	Uttar Pradesh	--	--	--	59	--	59
	West Bengal	--	--	--	20	--	48
	Total	168	155	135	344	190	1440
PDCSR	Andhra Pradesh	22	--	--	--	--	32
	Assam	5	--	--	--	--	5

Crop	State	2015-16	2016-17	2017-18	2018-19	2019-20	Total
	Bihar	--	--	--	15	--	25
	Chhattisgarh	--	--	--	25	--	25
	Gujarat	38	-	--	25	--	75
	Himachal Pradesh	6	--	--	4	--	16
	Jharkhand	--	--	--	--	--	5
	Karnataka	12	--	--	--	--	12
	Kerala	--	--	--	13	--	23
	Madhya Pradesh	--	--	--	--	--	0
	Orissa	8	--	--	--	--	8
	Punjab	12	--	--	17	--	41
	Rajasthan	12	--	--	12	--	24
	Tamil Nadu	10	--	--	--	--	10
	Telangana	--	--	--	18	--	18
	Uttarakhand	--	--	--	--	--	3
	Uttar Pradesh	--	--	--	--	--	10
	West Bengal	--	--	--	--	--	10
Total		125	125	145	129	--	612
STCR	Bihar	--	--	--	--	--	8
	Himachal Pradesh	--	--	--	--	--	14
	Punjab	--	--	--	--	--	5
	Total						27
Total	Andhra Pradesh	402	95	215	608	348	2812
	Arunachal Pradesh	--	--	28	--	--	28
	Assam	80	245	232	365	155	1127
	Bihar	125	101	167	83	20	778
	Chhattisgarh	75	130	150	100	60	695
	Gujarat	206	192	231	408	224	1717
	Haryana	95	70	110	110	110	712
	Himachal Pradesh	57	84	87	130	81	583
	Jammu & Kashmir	28	138	96	72	42	432
	Jharkhand	65	100	376	101	143	1053
	Karnataka	557	590	349	754	301	3386
	Kerala	--	--	--	13	--	48
	Madhya Pradesh	631	810	879	854	690	4809
	Maharashtra	876	718	739	755	512	4925
	Meghalaya	--	--	84	10	10	104
	Manipur	50	280	277	485	265	1447
	Mizoram	--	--	--	15	--	15
	Nagaland	40	45	--	38	15	201
	Orissa	38	100	75	100	65	598
	Punjab	137	197	143	164	115	1088
	Rajasthan	476	945	854	895	767	4712
	Tamil Nadu	170	65	110	269	210	1147
Telangana	--	300	500	483	411	1694	
Tripura	--	--	96	15	--	111	
Uttarakhand	60	135	190	325	180	998	

Crop	State	2015-16	2016-17	2017-18	2018-19	2019-20	Total
	Uttar Pradesh	283	686	605	625	343	3268
	West Bengal	130	227	184	280	270	1446
	Cropping systems	--	125	145	--	67	337
	Total	4581	6378	6922	8057	5404	40271

Source: Year-wise Annual Progress Reports of crops

20.4 Exploitable Yield Reservoir in Oilseeds

Crop/Year	No. of Demos	Mean Yield realized in Demos			State Average Yield (Kg/ha)	Yield gap-II (%)	State Average Production ('000 tonnes)	Expected Production ('000 tonnes)	
		IT	FP	Yield gap-I (%)				EP-I	EP-II
Groundnut									
2015-16	334	2176	1750	24	1398	56	5370	6659	8358
2016-17	335	2132	1706	25	1321	61	6048	7558	9760
2017-18	496	4715	3796	48	3699	55	8954	11093	11143
2018-19	557	4902	4015	43	3355	94	7080	8508	10578
2019-20	518	4778	3846	51	3647	61.9	8478	10667	11098
Soybean									
2015-16	1144	1484	1018	35	968	53	25255	34069	38717
2016-17	1103	1854	1480	35	968	53	25255	34069	38717
2017-18	1111	1772	1388	28	1049	69	10981	14019	18549
2018-19	1157	1831	1451	26	1213	51	13689	17273	20663
2019-20	980	1738	1321	33.6	1122	54.9	13628	18200	21110
Rapeseed-Mustard									
2015-16	354	1911	1567	22	1181	62	6797	8293	10980
2016-17	1945	1704	1430	19	1304	31	19819	23616	25899
2017-18	2140	1684	1374	23	1379	22	8322	10205	10168
2018-19	2080	1637	1336	23	1346	22	8397	10288	10211
2019-20	535	1120	857	30.7	1502	-25.4	9113	11909	6797
Sunflower									
2015-16	318	2971	2443	47	1119	278	296	357	738
2016-17	318	2971	2443	46	1409	226	415	501	867
2017-18	466	3257	2750	37	1321	307	230	280	549
2018-19	538	3209	2621	47	1626	194	251	311	493
2019-20	489	3907	3363	32.9	1588	302.1	204	239	488
Sesame									
2015-16	293	577	400	44	436	32	849	1225	1124
2016-17	339	576	383	50	448	29	747	1124	960
2017-18	124	519	391	33	481	8	751	996	810
2018-19	153	539	408	32	502	7	784	1038	842
2019-20	292	535	381	40.6	444	20.6	664	934	801
Safflower									
2015-16	428	930	772	20	416	124	53	64	119
2016-17	688	1106	993	11	651	70	94	105	160
2017-18	320	1199	930	29	651	84	94	121	173
2018-19	402	730	591	24	558	31	55	69	72

Front line demonstrations

Crop/Year	No. of Demos	Mean Yield realized in Demos			State Average Yield (Kg/ha)	Yield gap-II (%)	State Average Production ('000 tonnes)	Expected Production ('000 tonnes)	
		IT	FP	Yield gap-I (%)				EP-I	EP-II
2019-20	209	1058	936	13.1	570	85.6	27	30	49
Niger									
2015-16	168	405	227	78	309	31	79	141	104
2016-17	130	413	232	78	332	24	85	152	106
2017-18	103	368	198	86	329	12	74	137	83
2018-19	75	417	224	87	362	15	65	122	75
2019-20	130	448	268	67.2	342	30.9	79	132	103
Castor									
2015-16	148	2384	1911	25	1654	44	1751	2183	2523
2016-17	87	2058	1646	25	1853	11	1738	2174	1930
2017-18	468	2148	1773	21	1822	18	1497	1813	1765
2018-19	298	2322	1989	17	1521	53	1177	1373	1796
2019-20	487	2043	1737	17.6	1949	4.8	2042	2401	2140
Linseed									
2015-16	339	913	626	46	477	91	126	184	241
2016-17	720	928	639	14	567	64	184	268	302
2017-18	809	926	681	36	535	73	175	238	303
2018-19	643	954	676	41	546	75	167	235	291
2019-20	108	1134	806	54.9	537	111.2	136	211	287
Total Mean									
2015-16	3526	1390	1050	32	968	44	25251	33427	36256
2016-17	5665	1489	1209	23	1195	25	31276	38505	47973
2017-18	6037	1615	1290	25	1294	26	31459	39391	39581
2018-19	5903	1589	1277	25	1234	29	31502	39209	40575
2019-20	4785	1634	1323	23.5	1236	32.2	33423	41269	44176

Source: Year-wise Annual Reports of Frontline Demonstrations, ICAR-IIOR

(IT=Improved technology; FP=Farmers' practice; Yield Gap-I=Increase in IT over FP expressed in percentage; Yield Gap-II= Increase in IT over State average yield expressed in percentage; EP-I=Expected production, if yield gap-I is bridged through complete adoption of improved practices; EP-II=Expected production, if yield gap-II is bridged through complete adoption of improved practice).

20.5 Impact of whole package demonstrations on Oilseeds crop conducted during 2014-15 to 2019-20

Crop	Season	No. of demos	Mean seed yield (kg/ha)		Yield Gap-I (%)	Cost of cultivation (Rs./ha)		Gross returns (Rs./ha)		Additional net returns (Rs./ha)	B:C ratio	
Soybean		6023	1683	1306	29	26700	23469	58078	44145	10701	2.2	1.9
Rapeseed & Mustard	I	5212	1982	1674	18	27009	25524	78565	66269	10811	2.9	2.6
	R	2941	1112	850	31	16946	14603	45641	35060	8238	2.7	2.4
Ground nut	Rabi	776	2581	2085	24	45158	42577	113976	91137	20258	2.5	2.1
	Kharif	1595	2123	1732	23	46117	44198	100830	81862	17049	2.2	1.9
Sesame	Kharif	1269	553	388	42	19233	16039	46290	31661	11435	2.4	2.0
Linseed	I	1205	1193	821	45	24006	17361	63586	40531	16411	2.6	2.3
	R	1563	745	553	35	13769	11422	35944	25031	8565	2.6	2.2
	Utera	363	589	386	53	11215	8500	23356	14888	5753	2.1	1.8
Castor	Rabi	174	2186	1765	24	33000	32045	81217	64455	15807	2.5	2.0
	I	756	3722	3157	18	38913	37376	140965	120236	19192	3.6	3.2
	Kharif-R	932	1035	774	34	16731	15190	43340	29712	12087	2.6	2.0
Sunflower	Rabi	2053	1675	1398	20	25489	23817	57467	46863	8932	2.3	2.0
	Kharif	475	1615	1354	19	29245	27621	53537	42888	9024	1.8	1.6
Safflower	Rabi-I	470	1071	818	31	19547	16396	39789	29369	7270	2.0	1.8
	Rabi-R	2320	1009	885	14	20042	19266	27959	25048	2135	1.4	1.3
Niger		699	411	230	79	10363	6935	22597	12349	6820	2.2	1.8
Mean		1696	1487	1187	32	24911	22490	60773	47147	11205	2	2

(I): Irrigated; (R) Rainfed

20.6 All India Projected Cost of Production (A2 +FL) of Oilseed crops in India

(Rs. per Quintal)

Commodity	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Groundnut in Shell	3314	3371	3159	3260	3394	3515
Sunflower Seed	1770	1852	3481	3592	3767	3921
Soybean (Black)	3282	3479	2121	2266	2473	2587
Sesamum	4132	4188	4067	4166	4322	4570
Niger Seed	3146	3366	3912	3918	3960	4462
Rapeseed / Mustard	1504	1702	1871	2123	2212	2415
Safflower	3025	3057	3049	3125	3294	3551

Source: Price Policy Reports of Commission for Agriculture Costs & Prices (CACP)

20.7 Cost Estimates of Oilseeds Crops

Crop / State	Year	Cost of Cultivation (Rs./ha)		Cost of Production (Rs/qrtl)	Yield (qrtl/ha)
		A2 + FL	C2	C2	
Groundnut					
Andhra Pradesh	2015-16	42936			14
	2016-17	59841			10
Gujarat	2017-18	52582	70934	4876	13
	2015-16	58374			19
Karnataka	2016-17	79429			21
	2017-18	55939	74734	3429	18
	2015-16	41054			8
Maharashtra	2016-17	50289			9
	2017-18	42377	55582	5388	9
	2015-16	71131			11
Odisha	2016-17	84998			8
	2017-18	61274	75509	5454	13
	2015-16	39635			9
Rajasthan	2016-17	53822			9
	2017-18	46166	58473	5983	10
	2015-16	38744			25
Tamil Nadu	2016-17	68388			24
	2017-18	43535	60690	2871	19
	2015-16	58152			18
	2016-17	83481			19
	2017-18	56766	91452	5054	16
	Rapeseed & Mustard				
Assam	2013-14	22739	29108	3658	8
	2014-15	27502	35802	4353	8
	2015-16	27449			8
	2016-17	37798			8
	2017-18	26472	35827	3492	10
Bihar	2013-14	21022	28874	2520	11
	2014-15	16039	28850	2308	12
	2015-16	18603			12
	2016-17	33600			13
	2017-18	22962	38007	2869	13
Gujarat	2013-14	26044	38100	2116	17
	2014-15	26251	39450	2069	18
	2015-16	29980			14
	2016-17	42564			16
	2017-18	32013	49087	2897	16
Haryana	2013-14	27149	46390	2538	17
	2014-15	24941	47679	2930	15
	2015-16	26753			16
	2016-17	52516			19
	2017-18	25947	57304	2509	21
Madhya Pradesh	2013-14	17513	32183	1907	16

Crop / State	Year	Cost of Cultivation (Rs./ha)		Cost of Production (Rs/qtt)	Yield (qtt/ha)
		A2 + FL	C2	C2	
	2014-15	18674	34489	2217	15
	2015-16	20473			16
	2016-17	40181			19
	2017-18	25476	48316	2455	18
	Rajasthan	2013-14	22323	32892	2377	13
	2014-15	23925	34818	2611	12
	2015-16	27647			13
	2016-17	43602			17
	2017-18	34758	52712	2452	21
Uttar Pradesh	2013-14	24067	39658	2863	13
	2014-15	25621	41477	3849	10
	2015-16	27539			12
	2016-17	48772			16
	2017-18	31864	52327	3035	16
West Bengal	2013-14	27618	38169	3007	12
	2014-15	32240	45355	3114	14
	2015-16	33842			13
	2016-17	50095			13
	2017-18	33074	46141	3363	13
Soybean					
Andhra Pradesh	2013-14	--	--	--	--
	2014-15	28024	40321	3854	10
	2015-16	33059			7
	2016-17	60533			19
	2017-18	34888	50421	3039	17
Chhattisgarh	2013-14	16263	21174	3484	6
	2014-15	15940	23946	2511	9
	2015-16	20798			5
	2016-17	26402			10
	2017-18	17825	24082	3828	6
Madhya Pradesh	2013-14	19632	27602	2989	9
	2014-15	23972	34985	2662	13
	2015-16	24675			5
	2016-17	36591			14
	2017-18	25521	34753	3299	10
Maharashtra	2013-14	31390	40639	2950	13
	2014-15	36055	45160	4522	10
	2015-16	32328			9
	2016-17	56310			18
	2017-18	36657	46154	3495	13
Rajasthan	2013-14	18803	24250	3534	6
	2014-15	23018	29402	3916	7
	2015-16	23782			6
	2016-17	30107			8
	2017-18	20709	28067	2312	11

Crop / State	Year	Cost of Cultivation (Rs./ha)		Cost of Production (Rs/qtt)	Yield (qtt/ha)
		A2 + FL	C2	C2	
Sunflower					
Andhra Pradesh	2013-14	24181	32166	4289	8
	2014-15	23847	32371	7923	4
	2015-16	35750			9
	2016-17	34633			8
	2017-18				
Karnataka	2013-14	14378	19255	4043	5
	2014-15	199136	28340	3160	9
	2015-16	19978			4
	2016-17	28583			12
	2017-18	20717	28536	3531	8
Maharashtra	2013-14	200790	23930	5215	5
	2014-15	--	--	--	--
	2015-16	--	--	--	--
	2016-17				
	2017-18				
Safflower					
Karnataka	2013-14	--	--	--	--
	2014-15	10248	18231	2113	8
	2015-16	11633			4
	2016-17				
	2017-18	19222	41608	4042	10
Maharashtra	2013-14	19960	25904	2885	9
	2014-15	18492	22336	6973	3
	2015-16	16669			4
	2016-17				
	2017-18	29199	36145	5090	7
Niger Seed					
Chhattisgarh	2013-14	--	--	--	--
	2014-15	--	--	--	--
	2015-16	20488			2
	2016-17				
	2017-18				
Madhya Pradesh	2013-14	--	--	--	--
	2014-15	13824	17978	5697	3
	2015-16	16766			3
	2016-17	21372			3
	2017-18				
Odisha	2013-14	11918	16762	3901	4
	2014-15	12342	16024	6302	2
	2015-16	14153			2
	2016-17	21027			2
	2017-18	17710	22663	8141	3
Sesamum					
Andhra Pradesh	2013-14	17795	27359	8215	3

Crop / State	Year	Cost of Cultivation (Rs./ha)		Cost of Production (Rs/qtt)	Yield (qtt/ha)
		A2 + FL	C2	C2	
	2014-15	19282	29639	7178	4
	2015-16	23364			3
	2016-17	24449			3
	2017-18				
Gujarat	2013-14	22350	32276	6307	5
	2014-15	29056	39359	6904	6
	2015-16	26825			6
	2016-17	38907			7
	2017-18	38130	52201	6480	8
Madhya Pradesh	2013-14	15408	28802	5693	5
	2014-15	16726	29142	52089	5
	2015-16	18904			4
	2016-17	24426			4
	2017-18	25057	34874	5821	6
Odisha	2013-14	9913	15886	5590	3
	2014-15	16560	24694	5702	4
	2015-16	18625			5
	2016-17	26227			6
	2017-18	9818	13337	4719	3
Rajasthan	2013-14	10652	14409	6860	2
	2014-15	13848	26347	7863	330
	2015-16	12286			2
	2016-17	22168			3
	2017-18	16552	22875	9446	2
Tamil Nadu	2013-14	23560	32790	6272	5
	2014-15	--	--	--	--
	2015-16	--	--	--	--
	2016-17				
	2017-18	37646	55002	9994	5
Uttar Pradesh	2013-14	--	--	--	--
	2014-15	10461	16091	6973	2
	2015-16	11373			3
	2016-17	19525			3
	2017-18	11898	19785	6698	3
West Bengal	2013-14	25314	34710	3261	10
	2014-15	29269	41501	3376	12
	2015-16	26856			9
	2016-17	44939			9
	2017-18	43231	54751	4909	11
Cotton					
Andhra Pradesh	2013-14	56854	83492	4253	20
	2014-15	56731	79838	4662	17
	2015-16	52788			15
	2016-17	83117			18
	2017-18	67515	91532	5550	16

Crop / State	Year	Cost of Cultivation (Rs./ha)		Cost of Production (Rs/ctl)	Yield (ctl/ha)
		A2 + FL	C2	C2	
Gujarat	2013-14	50667	70673	3345	21
	2014-15	57070	73272	3659	20
	2015-16	55082			18
	2016-17	73154			18
	2017-18	62180	85350	3996	21
Haryana	2013-14	47539	69751	4183	16
	2014-15	45095	64905	5573	11
	2015-16	43177			8
	2016-17	74110			15
	2017-18	44976	70242	4747	14
Karnataka	2013-14	36167	54962	3681	15
	2014-15	42892	59042	4085	14
	2015-16	44677			12
	2016-17	69736			17
	2017-18	43431	60146	4452	13
Madhya Pradesh	2013-14	27002	43816	3119	13
	2014-15	59275	76832	5564	13
	2015-16	62798			14
	2016-17	82747			15
	2017-18	57477	78660	4077	18
Maharashtra	2013-14	55243	73232	4036	18
	2014-15	54888	72391	4632	15
	2015-16	57650			16
	2016-17	81064			18
	2017-18	64366	82932	5547	15
Odisha	2013-14	36313	50193	4095	12
	2014-15	35655	44347	6348	7
	2015-16	47623			12
	2016-17	69087			16
	2017-18	53133	69689	4343	16
Punjab	2013-14	47485	74407	4073	17
	2014-15	52923	76778	3891	18
	2015-16	46049			7
	2016-17	88365			21
	2017-18	56790	86268	4082	20
Tamil Nadu	2013-14	53395	73625	3930	18
	2014-15	49320	67922	3822	17
	2015-16	49384			16
	2016-17	71974			15
	2017-18	52997	73913	3989	17
	2015-16	78018			25
	2016-17	98676			15
	2017-18	95157	124010	6752	18

Source: Agricultural Statistics at a Glance:2020; Directorate of Economics & Statistics

(*) Cost of cultivation represents A2 + FL Cost

Note: i) Cost of A2 includes all actual expenses in cash & kind incurred in production by owner and rent paid for leased-in-land.

ii) Family Labour (FL) is calculated on the basis of statutory wage rate or the actual market rate, whichever is higher

20.8 Marketed Surplus Ratio (MSR) of Important Oilseed Crops in various States based on Comprehensive Scheme for Studying Cost of Cultivation of Oilseed Crops in India

Crop	State	2012-13	2013-14	2014-15
Groundnut	Andhra Pradesh	94	89	97
	Gujarat	100	98	95
	Karnataka	85	94	96
	Maharashtra	75	71	34
	Tamil Nadu	97	98	98
	All India	94	95	92
Rapeseed & Mustard	Andhra Pradesh	95	100	100
	Haryana	94	98	90
	Madhya Pradesh	97	98	97
	Rajasthan	95	96	94
	Uttar Pradesh	68	79	76
	West Bengal	71	93	77
	All India	90	94	91
Soybean	Madhya Pradesh	95	91	98
	Maharashtra		100	
	All India	95	95	98
Sunflower	Andhra Pradesh	100	--	100
	Karnataka	99	99	100
	Maharashtra	100		
	All India	99	99	100
Sesame	Gujarat	99	99	100
	Madhya Pradesh	97	97	97
	Orissa	--	--	--
	Rajasthan	80	83	89
	All India	91	94	95
Safflower	Karnataka	--	--	100
	All India	--	--	100
Niger Seed	Madhya Pradesh	--	--	98
	Odisha	98	--	--
	All India	98	--	98
Cotton	Gujarat	100	96	99
	Haryana	99	99	98
	Karnataka	98	99	99
	Madhya Pradesh	100	100	100
	Rajasthan	99	100	98
	All India	99	97	99

Source: Agricultural Statistics at a Glance 2020; Directorate of Economics & Statistics. DAC&FW8

Note: 1. All India figures are weighted average of only those states from where data is available.

- Not Reported

21. Prices

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21.1 Minimum Support Prices for Oilseeds

(Minimum Support Price (Rs. per quintal) for Fair Average Quality (FAQ))

Crop year	Groundnut in Shell	Rapeseed & Mustard	Toria	Soybean (Yellow)	Soybean (Black)	Sunflower	Safflower	Sesame	Niger
2015-16	4030.00	3350.00	3290.00	2600.00#	--	3800.00	3300.00	4700.00	3650.00
2016-17	4220.00*	3700.00*	3560.00	2775.00*	--	3950.0*	3700.00*	5000.00**	3825.00*
2017-18	4450.00 **	4000.00*	3900.00	3050.00**	3050.00**	4100.00*	4100.00*	5300.00*	4050.00*
2018-19	4890.00	4200.00	4190.00	3399.00	3399.00	5388.00	4945.00	6249.00	5877.00
2019-2020	5090.00	4425.00	4425.00	3710.00	--	5650.00	5215.00	6485.00	5940.00
2020-2021	5275.00			3880.00		5885.00		6855.00	6695.00
@ Increase in MSP 2019-20 Over 2018-19	200.00(4.1)	225.00(5.4)	235.00(5.6)	311.00(9.1)	--	262.00(4.9)	270.00(5.5)	236.00(3.8)	63.00(1.1)

Source: Directorate of Economic & Statistics, Dept. of Agriculture, Co-operation and Farmers Welfare, Min. of Agriculture & Farmers Welfare, GOI. <http://eands.dacnet.nic.in>

(@) Updated on 03.07.2019 for *khari* crop

(#) Single MSP has been fixed irrespective of the variety

(*) Including Bonus of Rs.100 per quintal

(**) Including Bonus of Rs.200 per quintal

21.2 State-wise Value of Output of Total Oilseeds (At 2011-12 Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	5681	4943	570332	450326
Arunachal Pradesh	79	83	8350	8358
Assam	754	749	68878	75338
Bihar	381	377	37151	37659
Chhattisgarh	400	461	34633	39660
Goa	84	85	8262	7327
Gujarat	17914	19587	2383306	1527574
Haryana	2839	3302	385239	437176
Himachal Pradesh	36	35	2968	5712
Jammu & Kashmir	95	80	11543	16582
Jharkhand	593	884	99567	75802
Karnataka	4495	4442	503235	488675
Kerala	4563	4185	406440	411876
Madhya Pradesh	14125	18709	1592744	1884120
Maharashtra	6253	12540	1027849	1184431
Manipur	73	74	7556	7413
Meghalaya	32	32	3242	3256
Mizoram	11	11	1763	2129
Nagaland	177	178	17237	16799
Odisha	594	681	53768	48917
Punjab	162	165	17355	17293
Rajasthan	18234	19869	1957621	2219390
Sikkim	18	18	1679	1623
Tamil Nadu	7187	5182	646902	675635
Telangana	1464	2302	226934	195417
Tripura	55	60	6389	6509
Uttar Pradesh	3179	3649	397187	456524
Uttarakhand	93	70	7201	7495
West Bengal	3232	3174	380818	391775
A & N Islands	79	76	7487	5772
Chandigarh	0.03	0.03	3	3
Dadra & Nagar Haveli	0.0	0.02	1	6
Daman & Diu	0.0	0.0	0.0	0.0
Delhi	13	13	1313	1312
Lakshadweep	54	54	5436	5436
Puducherry	24	18	1807	1635
All India	92974	106085	10882195	10714955

Source: <http://www.mospi.gov.in/> : National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

21.3 Farm Harvest Prices of Oilseed Crops

('Per quintal)

State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Sunflower		
Andhra Pradesh	2015-16	4691	...	5487	...	3011	3439		
	2016-17	4580 (k)	...	5446 (k)	...	3203	3446 (k)		
		5335 (r)	...	5836 (r)	...		3359 (r)		
	2017-18	4056 (k)	...	5702(k)	...	3553	3279(k)		
3960 (R)		...	5905(r)	...	3216(r)				
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Niger		
Assam	2015-16	...	2831	6164	2809	7500	3597		
	2016-17	...	2985	6204	3250	7512	3650		
	2017-18	...	2898	6245	3283	7716	3661		
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Soybean	Niger		
Bihar	2015-16	6602	3395	4652(k)	3060	...	...
				5489(r)		...	...
	2016-17	6578	3347	4202	3082	...	...
				4684(k)		...	...
2017-18	6612	3221	5467(r)	3093	...	...	
					
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Niger	Soybean	Sunflower
Chhattisgarh	2015-16	5786	4976	100056(k)	5440	2220	5327	3598	...
				11337(r)					...
	2016-17	5543	5381	9590(k)	3356	3049
				9437(r)	...	...	
				8475(k)	...	...	
2017-18	5959	4709	9465(r)	3175	5375	
						
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean		
Gujarat	2015-16	3681	3622	9202	...	3794	...		
	2016-17	4147	3700	6965	...	...	...
	2017-18	3500	3518	6648	...	3872	3262		

State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Sunflower	Toria		
Haryana	2015-16	3851	...	...	6907	...	...
	2016-17	...	...	...	7685	...	...
	2017-18	4520	...	9182	...	...	
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean		
Himachal Pradesh	2015-16	7665	5522	10809	...	...	5334
	2016-17	5904	5988	11351	...	...	6174
	2017-18	7835	3974	10905	7413	...	5156		
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Toria		
Jammu & Kashmir	2015-16	...	3757	6252	5555	...	...
	2016-17	...	3736	6229	5393	...	...
	2017-18	...	3777	6498	5338	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Niger		
Jharkhand	2015-16	...	4326	...	...	...	...
	2016-17	1456	...	5893	...	...	...
	2017-18	4050	4932	8588	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean	Sunflower	
Karnataka	2015-16	5760	8500	3285	3035	3401(k)	
		3302(r)	
		3501(s)	
	2016-17	4050(k)	...	5447(k)	8500	3292	3035	3183(k)	
		4808(r)	...	4284(r)	3143(r)	
		3550(k)	...	5833(k)	3096(r)	
2017-18	3728(R)	...	4454(R)	...	...	2742	3166(S)
	3635(s)	...	7520(s)	...	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Niger	Soybean	Sunflower
Madhya Pradesh	2015-16
	2016-17	4585	3478	7405(k)	3081	...

State	Year	Groundnut	Soybean	Sesame	Linseed	Castor	Sunflower	Rapeseed & Mustard	Niger
	2017-18	4835	3840	7500(r) 7177(k) 12000(r)	4156	---	---	2990	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Toria		
Maharashtra	2015-16	3585	3490	6625	4290	3051	3446	3656	5249
	2016-17	3586	2714	5661	4779	3452	2781	3541	2600
	2017-18	3883	3115	6718	3947	3224	2754	4075	1486
Manipur	2015-16	...	3000	...	...	...	...	...	...
	2016-17	...	1593	...	...	...	...	...	...
	2017-18	...	3000	...	...	...	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean		
Mizoram	2015-16	...	3534	5525	...	...	5525	...	...
	2016-17	...	...	7781	...	...	7781	...	...
	2017-18	...	3634	8698	...	...	7183	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor			
Orissa	2015-16	3672	4195	4684	...	...	...	...	...
	2016-17	--	4354	5081	...	...	...	...	...
	2017-18	4090	4586	5524	...	...	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor			
Punjab	2015-16	4030	---	9000	...	...	...	...	...
	2016-17	4000	2938	...	...	...	...	...	...
	2017-18	3650	...	...	...	...	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor			
Rajasthan	2015-16	3878	3826	7046	3803	3183	...	...	...
	2016-17	4127	3540	6649	3483	3862	...	...	...
	2017-18	3716	3584	6829	3696	4026	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor			
Tamil Nadu	2015-16	5242	...	7491	...	4391	...	...	...

	2016-17	6329	...	---	...	---		
	2017-18	...	...	8114	...	4445		
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor		
Telangana	2015-16	4544	...	6711	...	3286(k) 3189(r)		
	2016-17	3768	...	5425	...	2833		
	2017-18	3861 (R)	...	4855(k)	...	3637(k)		
		4020 (S)	...	8000(r)	...	4102(r)		
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor		
Tripura	2015-16	---	6589	6738	...	...
	2016-17	---	9250	7778	...	...
	2017-18	---	7238	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean	Soybean
Uttar Pradesh	2015-16	6162	3623	6365	4238	...	2640	2640
	2016-17	3609	3757	5577	3757	...	2225	2225
	2017-18	3872	3613	5290	4119	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor	Soybean	
Uttarakhand	2015-16	5375	3495	7381	...	...	3379	
	2016-17	5235	3495	7377	...	...	3396	
	2017-18	5625	3340	7661	...	...	3463	
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor		
West Bengal	2015-16	...	4147	...	...	...
	2016-17	...	4061	...	...	...
	2017-18	...	4236	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor		
Delhi	2015-16	...	...	...	...	...
	2016-17	...	...	...	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor		
Pondicherry	2015-16	5339	...	3868	...	...

	2016-17	2613	...	2203	...	...
	2017-18	6337	...	4585	...	...
State	Year	Groundnut	Rapeseed & Mustard	Sesame	Linseed	Castor
Andaman & Nicobar	2015-16	...	8000	5000	...	...
	2016-17	9000	...	6000	...	...
	2017-18	8000	...	...	...	...

Source: DES, Dept. of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI, Farm Harvest Prices of Principal Crops in India, 2016-17; <http://eands.dacnet.nic.in>

21.4 Trends in Wholesale Price Index of Oilseed Crops and Oils (Base Year: 2011-12 = 100)

Commodity	Weight	2015-15	2016-17	2017-18	2018-19	2019-20
Oilseeds	1.1	137	136	130	141	151
Groundnut Seed	0.3	128	138	123	118	143
Rape/Mustard Seed	0.2	146	149	134	142	145
Cotton Seed	0.01	136	160	144	139	150
Copra (Coconut)	0.1	133	111	180	210	189
Gingelly Seed (Sesame)	0.01	111	119	122	149	175
Linseed	0.01	133	168	156	146	162
Niger Seed	0.002	223	208	201	145	170
Safflower (Kardi Seed)	0.002	107	114	135	145	185
Sunflower	0.02	115	112	100	113	121
Soybean	0.4	151	144	130	150	164
Castor seed	0.1	90	85	103	111	115
Manufacture of Vegetable & Animal Oils and Fats	2.6	99	107	109	118	119
Castor Oil	0.03	97	96	107	112	167
Rapeseed oil	0.01	120	119	111	181	117
Mustard Oil	0.2	125	125	118	112	126
Coconut/Copra Oil	0.0	141	129	162	110	167
Groundnut Oil	0.1	110	120	108	110	122
Cotton Seed Oil	0.1	98	101	102	113	114

Commodity	Weight	2015-15	2016-17	2017-18	2018-19	2019-20
Sunflower Oil	0.2	101	105	103	123	112
Soybean Oil	0.3	99	105	106	117	114
Rice Bran oil	0.3	99	109	111	181	121
Palm Oil	1.0	92	104	108	110	117
Vanaspati	0.4	97	107	111	120	

Source: Agricultural Statistics at a Glance 2020; Office of the Economic Advisor, GOI

21.5 Growth Rate (Inflation) Wholesale Price Index of Oilseed Crops and Oils

(Base Year: 2011-12 = 100)

Commodity	Weight	2015-16	2016-17	2017-18	2018-19	2019-20
Oilseeds	1.12	6	-0.4	-5	8	8
Groundnut Seed	0.27	20	8	-11	-3	21
Rape & Mustard Seed	0.25	19	2	-10	6	2
Cotton Seed	0.01	16	17	-10	3	7
Copra (Coconut)	0.07	-16	-16	62	17	-10
Gingelly Seed (Sesame)	0.01	-17	7	3	22	18
Linseed	0.01	4	27	-7	-6	11
Niger Seed	0.002	75	-7	-3	-28	17
Safflower (Kardi Seed)	0.002	9	6	18	7	28
Sunflower	0.02	5	2.6	-11	13	8
Soybean	0.38	-2	-5	-10	16	9
Castor seed	0.10	-5	-5	21	8	4
Manufacture of Vegetable and Animal Oils and Fats	2.64	-3	8	2	8	1
Castor Oil	0.03	-6	-2	11	1	3
Rapeseed oil	0.01	12	-1	-7	6	5
Mustard Oil	0.18	14	0	-5	5	1
Coconut/Copra Oil	0.03	-9	-8	26	6	-8
Groundnut Oil	0.06	16	9	-9	1	11
Cotton Seed Oil	0.07	-1	3	1	6	4
Sunflower Oil	0.23	6	4	-2	11	2
Soybean Oil	0.34	-4	6	2	8	2
Rice Bran oil	0.30	-3	11	2	12	-2
Palm Oil	1.02	-8	12	4	8	0.3

Source: Agricultural Statistics at a Glance 2020; Office of the Economic Advisor, GOI

21.6 Monthly Whole Sale Price Index (WPI) of Edible Oils in India

(Base Year: 1981-82 / 1993-94 / 2004-05 = 100)

Years	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
2015	147	146	145	144	147	149	148	148	148	150	150	152
2016	149	149	150	152	153	155	156	157	157	157	156	158

Source: Ministry of Commerce and Industry, Govt. of India.

21.7 Consumer Price Index and Growth Rate (Inflation) of Consumer Price Index of Oils and Fats

Year	General Index (Weight 3.56)	Growth Rate (Inflation) (in %)
2015-16	113	4
2016-17	117	4
2017-18	119	2
2018-19	122	2
2019-20	125	3

Source: Source: Agricultural Statistics at a Glance 2020; National Statistical Office

- Note: 1. Figures are as per New CPI introduced from January 2011
 2. Data for this series is available for Base: 2012=100
 3. Yearly indices are average of monthly indices

21.8 Procurement of Oilseeds by NAFED under Price Support Scheme (PSS)

Oilseed	Year	Support Price MSP+Bonus	Quantity Procured(MT)	Value ` In lakhs MSP + Bonus	Major States of Procurement
Soybean	2015-16	2600	NIL	NIL	
	2016-17	2675**	162	45	Maharashtra
	2017-18	3050^	72281	22046	Telangana, Rajasthan, Maharashtra,
	2018-19	3399	19483	6622	Telangana, Rajasthan, Maharashtra, Karnataka
	2019-2020	3710	10678	3961	Telangana, Maharashtra
	2020-2021	3880	4	1	Maharashtra
Groundnut	2015-16	4030	Nil	Nil	--
	2016-17	4220**	210731	88929	Gujarat
	2017-18	4450^	1046987	465888	Odisha, Gujarat, Rajasthan, Andhra Pradesh, Karnataka, Telangana, Maharashtra
	2018-19	4890	719813	351882	Telangana, Odisha, Madhya Pradesh, Gujarat, Rajasthan, Uttar Pradesh,
	2019-2020	5090	721205	367091	Odisha, Gujarat, Rajasthan, U.P, A.P, Karnataka
	2020-2021	5275	280500	147926	Odisha, Gujarat, Rajasthan, U.P, A.P, Haryana
Safflower	2013-14	3000	Nil	Nil	
	2014-15	3050	Nil	Nil	
	2015-16	3300	Nil	Nil	
	2016-17	3600**	Nil	Nil	
	2017-18	4100*	Nil	Nil	
	2018-19	4945	Nil	Nil	

Oilseed	Year	Support Price MSP+Bonus	Quantity Procured(MT)	Value ` In lakhs MSP + Bonus	Major States of Procurement
Mustard Seed	2019-2020	5215	Nil	Nil	
	2020-2021	5327	Nil	Nil	
	2015-16	3350	Nil	Nil	
	2016-17	3700**	Nil	Nil	
	2017-18	4000**	48836	18430	Haryana, Rajasthan
	2018-19	4200	873536	349558	Haryana , Rajasthan, Madhya Pradesh, Uttar Pradesh, Gujarat, West Bengal
	2019-2020	4425	1081884	454392	Haryana, Rajasthan, Madhya Pradesh, Uttar Pradesh, Gujarat
	2020-2021	4650	803824	355692	Haryana, Rajasthan, Madhya Pradesh, Uttar Pradesh, Gujarat
	2015-16	3800	4242	1591	Odisha & Haryana
	2016-17	3950**	4949	1881	Odisha & Haryana
Sunflower	2017-18	4100**	43334	16197	Telangana, Haryana, Odisha
	2018-19	5388	3493	1529	Odisha, Haryana & Telangana
	2019-2020	5650	2586	1394	Odisha & Haryana
	2020-2021	5885	5267	2976	Odisha, Haryana, Telangan
	2015-16	5550(Milling)	Nil	Nil	
		5830(Ball)	Nil	Nil	
	2016.17	5950(Milling)	4489	2671	Tamil Nadu, Andhra Pradesh
		6240(Ball)	1837	1146	Karnataka, Tamil Nadu
	2017-18	6500(Milling)	Nil	Nil	
		6785(Ball)	Nil	Nil	
Copra	2018-19	7511(Milling)	Nil	Nil	
		7750(Ball)	Nil	Nil	
2019-2020	9521(Milling)	314	299	Tamil Nadu	
	9920(Ball)	0.2	0.2	Tamil Nadu	
2020-2021	9960(Milling)	36	35	Tamil Nadu	
	10300(Ball)	5053	5205	Karnataka, Tamil Nadu	

Oilseed	Year	Support Price MSP+Bonus	Quantity Procured(MT)	Value ` In lakhs MSP + Bonus	Major States of Procurement
Soybean	2017-18	4800+200	3740	1870	West Bengal
	2015-16	4700	Nil	Nil	
	2016-17	5000	Nil	Nil	
	2017-18	5300**	3740	1870	West Bengal
Sesame	2018-19	6249	Nil	Nil	
	2019-2020	6485	Nil	Nil	
	2020-2021	6855	Nil	Nil	

Source: Agricultural Statistics at a Glance 2020; NAFED & Directorate of Economics & Statistics, DAC&FW

• Purchased at MSP (Rs 3700/qrtl) of 2012-13 for the year 2013-14

•• Bonus of Rs. 100 per quintal is payable over and above the MSP.

A Bonus of Rs. 200 per quintal is payable over and above the MSP,

Procurement up to 19.12.2019

21.9 International Market Prices of Selected Oilseeds, Crude Oils and Meals*

Oct - Sep Average	Oilseed Prices U.S. Dollars per Metric Ton										
	Soybean					Peanut		Sunseed		Rapeseed	Copra
	U.S. 1/	U.S. 2/	Brz 3/	Arg 4/	Rott 5/	U.S. 6/	Rott 7/	U.S. 8/	Rott 9/	Hamb 10/	Rott 11/
2015-16	339	346	382	375	396	419	1,260	433	440	409	907
2016-17	347	351	385	376	404	437	1,554	386	408	432	1076
2017-18	343	337	396	386	403	508	1,317	381	403	425	784
2018-19	309	307	360	347	370	463	1,302	389	380	420	483
2019-20	316	325	367	354	380	472	1,444	436	420	433	602
2020-21	462	495	531	525	563	512	1,477	464	685	594	993

1/ Decatur, Average Wholesale 48% Protein; USDA. 2/ Brazil Paranagua, FOB; 48% Protein; IGC. 3/ Argentina Pellets, Up River, FOB; IGC; 4/ Hamburg FOB 44/45% Ex-Mill; Oil World.

5/ Memphis FOB; 41% Protein Solvent Extraction; USDA; 6/ Minneapolis FOB; 32% Protein; USDA. 7/ HiPro a.o. cif France or Ukraine DAF; Argentina Pellet 37-38% (Prior to Aug 2012); Oilworld.

8/ Bremen 64-65% Protein; Oil World. 9/ Hamburg FOB; Ex-Mill 34% Protein; Oil World.

* Preliminary

	Vegetable Oil Prices U.S. Dollars per Metric Ton												
	U.S. 1/	Brz 2/	Arg 3/	Rot t 5/	U.S. 5/	U.S. 6/	Rott 7/	U.S. 8/	Rott 9/	Malay 10/	Rott 11/	Rott 12/	U.S. 13/
2015-16	658	704	698	774	1,011	1,275	849	1,294	1,443	628	798	1,362	865
2016-17	718	765	763	848	902	1,181	807	1,496	1,524	699	871	1,621	825
2017-18	662	722	722	822	703	1,203	776	1,470	1,326	626	844	1,175	669
2018-19	606	651	649	745	775	1,174	719	1,422	1,269	521	840	724	594
2019-20	654	705	698	785	886	1,434	795	1,532	1,571	645	879	899	870
2020-21	1,261	1,163	1,147	1266	1,787	1,639	1,350	2,261	2,091	1,0211	1,306	1,483	1,193

1/ Decatur; Average Wholesale Tank Crude; USDA. 2/ Brazil Paranagua, FOB Crude; IGC.

3/ Argentina Up River, FOB Crude; IGC 4/ Dutch FOB; Ex-Mill; Oil World. 5/ PPSY Greenwood MS; USDA. 6/ Minneapolis FOB; USDA. 7/ EU FOB NW Euro; Oil World. 8/ South East Mills FOB; Tank Cars Crude; USDA. 9/ Rotterdam CIF; Any Origin; Oil World. 10/ Malaysia FOB; RBD; Oil World. 11/ Rotterdam, Dutch FOB Ex-Mill; Oil world. 12/ Rotterdam CIF; Phil/Indo; Oil World. 13/ Chicago; Crude; AMS

* Preliminary

Oct - Sep Average	Protein Meal Prices								U.S. Dollars per Metric Ton	
	Soybean meals				Cotton seed	Sunseed		Fish Brem	Rapeseed	
	U.S. 1/	Brz 2/	Arg 3/	Hamb 4/	U.S. 5/	U.S. 6/	Ukr 7/	U.S. 8/	Hamb 9/	
2015-16	358	335	349	351	288	169	233	1,517	232	
2016-17	349	322	326	336	230	160	178	1,377	225	
2017-18	380	368	375	382	287	191	224	1,506	259	
2018-19	340	325	321	329	252	181	219	1,477	247	
2019-20	330	328	331	338	272	207	217	1,406	244	
2020-21	432	447	439	463	413	272	312	1,486	346	

1/ Decatur, Average Wholesale 48% Protein; USDA. 2/ Brazil Paranagua, FOB; 48% Protein; IGC. 3/ Argentina Pellets, Up River, FOB; IGC; 4/ Hamburg FOB 44/45% Ex-Mill; Oil World. 5/ Memphis FOB; 41% Protein Solvent Extraction; USDA; 6/ Minneapolis FOB; 32% Protein; USDA. 7/ HiPro a.o. cif France or Ukraine DAF; Argentina Pellet 37-38% (Prior to Aug 2012); Oilworld. 8/ Bremen 64-65% Protein; Oil World. 9/ Hamburg FOB; Ex-Mill 34% Protein; Oil World.

* Preliminary

Source: Foreign Agricultural Service/USDA Global Market Analysis

21.10 GST Rates of Oilseeds (other than Seed Quality) and Oilseed Commodities

HSN Code	Commodity	Rate of GST (%)
OILSEEDS		
1201	Soybean Seed	5%
1202	Groundnuts (not roasted or otherwise cooked)	5%
1203	Copra	5%
1204	Linseed, whether or not broken	5%
1205	Rape or Colza Seed, whether or not broken	5%
1206	Sunflower Seed, whether or not broken	5%
1207	Palm nuts, Palm kernel	5%
1207	Cotton Seed	5%
1207	Castor Seed	5%
1207	Sesamum Seed	5%
1207	Mustard Seed	5%
1207	Safflower Seed	5%
1207	Mango Kernel	5%
1207	Niger seed	5%
1207	Kokum	5%
1211	Neem Seed, Neem Leaves	5%
1211	Jajoba Seeds	5%
VEGETABLE OILS		
1507	Soybean Oil (both Crude & Refined)	5%
1507	Groundnut Oil (both Crude & Refined)	5%
1509	Olive Oil (both Crude & Refined)	5%
1511	Palm Oil and its fractions (both Crude & Refined)	5%

HSN Code	Commodity	Rate of GST (%)
1512	Sunflower Oil (both Crude & Refined)	5%
1512	Safflower oil (both Crude & Refined)	5%
1512	Cottonseed oil (both Crude & Refined)	5%
1513	Coconut (copra Oil) (both Crude & Refined)	5%
1513	Palm Kernel oil & its fraction (both Crude & Refined)	5%
1514	Rape, Colza or Mustard Oil (both Crude & Refined)	5%
1515	Linseed Oil, (both Crude & Refined)	5%
1515	Maize (Corn) Oil (both Crude & Refined)	5%
1515	Castor Oil (both Crude & Refined)	5%
1515	Sesame Oil (both Crude & Refined)	5%
1515	Neem seed oil (both Crude & Refined)	5%
1515	Karanja Oil (both Crude & Refined)	5%
1515	Niger Seed Oil(both Crude & Refined)	5%
1515	Mango Kernel Oil(both Crude & Refined)	5%
1515	Mahua Oil(both Crude & Refined)	5%
1515	Rice Bran Oil (both Crude & Refined)	5%
1515	Jajoba Oil(both Crude & Refined)	5%
1515	Tamarind Seed Kernel Oil	5%
1516	Partly or wholly Hydrogenated, Interesterified Re-esterified Of elaidinised. both crude and refined:- Cottonseed oil, Groundnut oil, Castor oil	5%
1517	Blended Vegetable Oils	5%
1517	Margarine	18%
1521	Vegetable Waxes	18%
1522	Degrass, Residue resulting from treatment of fatty substances or vegetable waxes (incl. Soap Stock, Waxes, Gums, Spent Earth)	18%
OIL CAKE		
2302	Rice Bran	5%
2304	Soybean Oilcake	5%
2305	Groundnut oilcake	5%
2306	Cottonseed Oilcake	NIL
2306	Linseed Oilcake	5%
2306	Sunflower Seed Oilcake	5%
2306	Rape or Colza seed Oilcake	5%
2306	Coconut or Copra Oilcake	5%
2306	Mowra oilcake	5%
2306	Coconut or Copra Oilcake	5%
2306	Mustard seed Oilcake	5%
2306	Niger seed Oilcake	5%
2306	Sesamum seed Oilcake	5%
2306	Mango Kernel Oilcake	5%
2306	Sal seed Oilcake	5%
2306	Tamarind Seed Kernel Cake	5%
3823	Rice Bran Fatty Acid	18%
3823	Sunflower Fatty .Acid (Distillate)	18%

HSN Code	Commodity	Rate of GST (%)
3823	Cottonseed Fatty Acid (Distillate)	18%
GST on All OILMEALS		NIL

Source: SEA HANDBOOK 2019; GST Council Notification No: 12/2017-Central Tax, dated: 28.7.2017

22. Vegetable oils and oil meals

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22.1 Per capita Availability of Vegetable Oils and Vanaspati

Year	Edible Oils (Kg) (*)	Vanaspati (Kg) (#)	Total (Kg)
2015-16	17.7	0.8	18.5
2016-17	18.2	0.7	18.9
2017-18	19.5	0.7	20.2
2018-19	18.1	0.6	18.7
2019-20	19.2	0.6	19.8

Source: Economic Survey 2018-19 (A-40); Directorate of Economics and Statistics, DAC&FW

(*) Includes groundnut oil, rapeseed & mustard oil, sesamum oil, niger seed oil, soybean oil and sunflower oil but excludes oil for manufacture of Vanaspati

(#) Related to calendar year;

(p) Provisional figures based on 4th Advance Estimates of production for 2018-19

22.2 Production of Oilseeds & Oils and Net Availability of Edible Oils

(In lakh tonnes)

Oilseeds / Oils	2015-16		2016-17		2017-18		2018-19(*)		2019-20(**)	
	Oilseeds	Oils	Oilseeds	Oils	Oilseeds	Oils	Oilseeds	Oils	Oilseeds	Oils
A. Primary Source										
Groundnut	67	15	75	17	84	26	93	29	91	28
Rapeseed & Mustard	68	21	79	25	109	18	133	22	112	18
Soybean	86	14	132	22	93	21	67	15	101	23
Sunflower	3	1	3	1	2	1	2	1	2	1
Sesamum	9	3	7	2	8	2	7	2	8	2
Niger seed	1	0.2	1	0.2	1	0.2	0.5	0.2	0.4	0.1
Safflower	1	0.2	1	0.2	1	0.1	0.3	0.1	0.3	0.1
Castor	18	6	14	5	16	6	12	4	18	7
Linseed	1	0.3	2	0.4	2	0	1	0	1	0
Sub Total	253	61	313	73	315	74	315	74	334	79
B. Secondary Source										
Coconut	--	4	--	5	--	6	--	6	--	6
Palm Oil	--	2	--	2	--	2	--	3	--	3
Cottonseed	--	10	--	12	--	13	--	11	--	13
Rice bran	--	10	--	10	--	11	--	11	--	11
Solvent Extracted Oils	--	4	--	3	--	4	--	3	--	4
Tree & Forest Origin	--	2	--	2	--	2	--	2	--	2
Sub Total	--	31	--	34	--	37	--	35	--	37
Total(A+B)	--	92	--	107	--	110	--	110	--	116
C. Less: Exports & Industrial Use	--	6	--	7	--	6	--	6	--	10
D. Net Domestic Availability of Edible Oils	--	86	--	101	--	104	--	104	--	107
E. Import of Edible Oils (\$)		149		153		146		155		134
F. Total Availability/Consumption of Edible Oils		235		254		250		259		241

Source: Directorate of Vanaspati, Vegetable Oils and Fats

(*) Based on Final Estimates released by Ministry of Agriculture and Farmers Welfare on 03.06.2019

(**) Based on 4th Advance Estimates released by Ministry of Agriculture and Farmers Welfare on 19.08.2019

(\$) As per data from Directorate General of Commercial Intelligence & Statistics (Department of Commerce)

22.3 World Production of Oils & Fats (2010-11 to 2021-22)

(Quantity in Mn.T)

Oil / Fat	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22 (Sept.)
Soybean oil	51	53	55	56	59	59	62
Cotton oil	4	4	5	5	5	5	5
Groundnut oil	4	4	6	6	6	6	6
Sunflower oil	16	19	19	20	21	19	22
Rapeseed oil	25	25	28	28	28	29	28
Sesame oil	1	1	--	--	--	--	--
Corn oil	4	4	--	--	--	--	--
Olive oil	3	3	3	3	3	3	3
Palm oil	59	66	71	74	73	73	77
Palm Kernel oil	6	7	8	9	9	8	9
Coconut oil	3	2	4	4	3	3	4
Butter as fat	8	8	--	--	--	--	--
Linseed oil	1	1	--	--	--	--	--
Castor oil	1	1	--	--	--	--	--
Total	186	199	198	204	207	206	215

Source: Foreign Agricultural Service/USDA

Global Market Analysis

22.4 Country-wise Production of Oils and Fats (2012-13 to 2017-18) (October-September)

('000 MT)

Country	2015-16	2016-17	2017-18 (F)	2018-19	2019-20	2020-21 (F)
Eu-28	24491	24109	24831	--	--	--
Other Europe	660	721	707	2104	1928	1976
C.I.S.	12567	14822	14155	16438	18064	15928
Nigeria	1496	1522	1573	--	--	--
South Africa, Rep	675	683	757	--	--	--
Canada	4642	4933	5052	5103	5370	5254
USA	19525	20061	20699	21087	21402	21863
Mexico	1877	2001	2052	--	--	--
Argentina	10063	10192	9246	9888	9324	9838
Brazil	10030	10295	11069	11303	12299	12322
Columbia	1393	1190	1903	--	--	--
China PR	27081	21695	28949	27370	27155	28729
India	8259	9420	9816	10153	10170	11163
Indonesia	35682	41144	43129	49576	47552	51079
Japan	1822	1864	1865	--	--	--
Korea South	455	449	459	--	--	--
Malaysia	19879	21182	23260	23415	21678	20738
Pakistan	1834	1967	2087	--	--	--
Philippines	1114	1216	1354	--	--	--
Thailand	2441	2889	3567	4032	3595	3686
Taiwan	520	527	534	--	--	--
Turkey	1675	1803	1935	--	--	--

Vegetable oils and oil meals

Country	2015-16	2016-17	2017-18 (F)	2018-19	2019-20	2020-21 (F)
Australia	1115	1120	1167	--	--	--
New Zealand	645	613	634	--	--	--
Other Countries	14529	15051	15934	33467	33877	33882
Total	204476	218069	226734	213936	212414	216458

Source: SEA Hand Book 2020-21; Oil World 2021. (F) Forecast.

22.5 Per Capita Consumption of Oil and Fats in Major Countries (October-September)

(Kg per Annum)

Country	2015-16	2016-17	2017-18 (F)	2018-19	2019-20	2020-21(F)
Eu-28	64	66	66	--	--	--
Other Europe	37	38	39	--	--	--
C.I.S.	26	26	26	27	27	27
Russia	32	32	32	--	--	--
Libya	28	29	29	--	--	--
South Africa, Rep	24	24	24	--	--	--
Tunisha	31	32	33	--	--	--
Canada	51	52	53	52	53	56
USA	68	69	71	73	72	75
Mexico	25	26	26	--	--	--
Argentina	81	89	82	72	61	55
Brazil	44	45	48	51	55	56
Chile	34	35	37	--	--	--
China PR	26	27	27	27	28	29
India	17	18	18	18	17	17
Indonesia	42	43	47	65	66	68
Japan	22	22	23	--	--	--
Korea	28	29	30	--	--	--
South Pakistan	24	25	25	25	24	24
Hongkong	48	48	49	--	--	--
Taiwan	35	36	37			
Thailand	38	39	42	50	48	49
Turkey	34	33	33	33	33	33
Australia	35	35	35	--	--	--
New Zealand	33	33	35	--	--	--
World Average	28	29	29	31	30	31

Source: SEA Hand Book 2020-21; Oil World 2021. (F) Forecast.

22.6 India's Share in World Production of Vegetable Oils

(In 000' tonnes)

Vegetable oils and oil meals

Oil	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Soybean						
World	51885	53938	56929	56647.6	58557.6	60276.6
India	954.6	1406.2	1406.2	1530.8	1263.8	1521.9
Percentage	1.8	2.6	2.5	2.7	2.2	2.5
Cottonseed						
World	4290	4291.1	4713.4	4587.5	4682.3	4426.2
India	1221	1200.6	1283.2	1174.4	1258.1	1274.7
percentage	28	28	27	26	27	29
Groundnut						
World	3679	4229.7	4353.2	4015.8	4138.9	4283.7
India	165.6	579.6	621	360.2	472	662.4
percentage	4.5	13.7	14.3	9.0	11.4	15.5
Sunflower						
World	16028.8	18850.2	18883.6	20064.9	21534	18914.8
India	94.1	78.1	69.3	67.5	67.5	78.1
Percentage	0.59	0.41	0.37	0.34	0.31	0.41
Rapeseed						
World	25288.2	24949.5	25613.8	25219.6	24939.9	26125.8
India	1744.2	1949.9	2433.6	2552.4	2505.6	2862
Percentage	6.9	7.8	9.5	10.1	10.0	11.0
Sesame						
World	928	900.4	889.3	881.2	890.1	908.6
India	108	100	76	100	88	96
Percentage	11.6	11.1	8.5	11.3	9.9	10.6
Palm						
World	59239.5	67604.4	73676.5	77985.4	73918.2	76772.2
India	210.7	212.2	253.2	276.6	279.7	294.2
Percentage	0.4	0.3	0.3	0.4	0.4	0.4
Palm kernel						
World	6359	7058.3	7702.1	8159.4	7851.4	8076.6
India	13.5	14.4	17.8	19.6	20.7	22.3
Percentage	0.2	0.2	0.2	0.2	0.3	0.3
Coconut						
World	2593.5	2479.9	2750.9	2954.7	2695.4	2712.1
India	345.6	269.6	304	344.5	342	361.1
Percentage	13.3	10.9	11.1	11.7	12.7	13.3
Linseed						
World	764.9	828	793.2	813.6	811.9	851.4
India	34.6	46.8	47	28.7	28.7	28.4
Percentage	4.5	5.7	5.9	3.5	3.5	3.3
Castor						
World	774.9	840.5	842.1	743.7	851	905.9
India	708.8	776.3	780.9	678.4	778.3	834.9

Vegetable oils and oil meals

Oil	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Percentage	91.5	92.4	92.7	91.2	91.5	92.2
Total Oils						
World	206135	220287	233191	237676	235834	240114
India	8444	9562	10263	10153	10170	11163
Percentage	4.1	4.3	4.4	4.3	4.3	4.6

Source: Oil World 2021

22.7 India's Share in World Production of Oil Meals

(In 000' tonnes)

Oil Meal	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Soybean Meal						
World	217394.6	225768.4	238882	235124.2	244273.6	250913.9
India	4545.5	6454.3	6454.3	7026.2	5800.7	6985.4
Percentage	2.1	2.9	2.7	3.0	2.4	2.8
Cotton Meal						
World	18933.5	18879.2	20651.8	20013	20516.2	19710.8
India	8217.7	8081	8635.8	7904.1	8466.9	8579.6
Percentage	43.4	42.8	41.8	39.5	41.3	43.5
Groundnut Meal						
World	5173.6	5931	6092.9	5613.2	5814.4	5988.2
India	226.4	792.4	849	492.4	645.2	905.6
Percentage	4.4	13.4	13.9	8.8	11.1	15.1
Sunflower Meal						
World	17180.9	19805	20016.1	20908.2	21978.4	20206.8
India	128.5	106.7	94.6	92.2	92.2	106.7
Percentage	0.7	0.5	0.5	0.4	0.4	0.5
Rapeseed Meal						
World	35318.3	34799.3	35575.6	35443.8	35309.4	36915.2
India	3013.5	3369	4204.7	4410	4329.1	4944.9
percentage	8.5	9.7	11.8	12.4	12.3	13.4
Sesame Meal						
World	1122.7	1086.3	1069.2	1063	1072.1	1095.4
India	156.6	145	110.2	145	127.6	139.2
Percentage	13.9	13.3	10.3	13.6	11.9	12.7
Corn Germ Meal						
World	4016.7	4276.1	4515.2	4649.2	4710.2	4704.8
India	-	-	-	-	-	-
Percentage	-	-	-	-	-	-
Corn Gluten Feed (CGF) & Meal						
World	16446.5	16991.6	16885.7	16567	16430.5	16454.2
India	-	-	-	-	-	-
Percentage	-	-	-	-	-	-

Vegetable oils and oil meals

Oil Meal	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Palm Kernel Meal						
World	7743.2	8572.7	9322.8	9888.9	9545	9868.9
India	16.7	17.7	21.9	24.1	25.5	27.5
Percentage	0.2	0.2	0.2	0.2	0.3	0.3
Copra Meal						
World	1481.6	1408.4	1566.3	1675.1	1533	1546.2
India	207.3	161.7	182.4	206.7	205.2	216.7
percentage	14.0	11.5	11.6	12.3	13.4	14.0
Linseed Meal						
World	1474.5	1581.2	1518.6	1554.6	1554.8	1628.9
India	67.2	90.7	91.1	55.7	55.6	55
Percentage	4.6	5.7	6.0	3.6	3.6	3.4
Total						
World	330551	344101	361165	357719	367622	374454
India	16681	19369	20805	20529	19855	22109
Percentage	5.0	5.6	5.8	5.7	5.4	5.9

Source: Oil World 2021

22.8 Assessment of Vegetable Oil Requirement for 2022

Item	Year - 2022
Expected population (billion)	1.34
Per capita consumption (kg/annum)	21.7
Vegetable oil requirement for direct consumption (mt)	29.08
Vegetable oil requirement for industrial use. (mt)	4.12
Total vegetable oil requirement (mt)	33.2
Vegetable oil production from annual oilseeds	11.41
Vegetable oil production from oil palm	0.4
Vegetable oil availability from secondary sources (mt)	5.22
Total vegetable oilseeds requirement from 9 annual oilseed crops (mt)	45.64
Total vegetable oil availability from primary and secondary sources including oil palm (mt)	17.03
Dependence on imports (mt)	16.13

Source: NMOOP status Report Present Status of Oilseed Crops and Vegetable Oils in India

22.9 World Vegetable Oil Consumption Projections by 2027

Country	Consumption (kt)		Growth (%) ³	
	Average 2015-2017(Est)	2027	2008-17	2017-27
WORLD	191590	234515	4	2
North America	17123	18512	4	1
Canada	1310	1358	6	1
United States	15814	17154	4	1
Latin America	19583	23169	5	1
Argentina	3435	3805	8	-1
Brazil	7649	9093	4	1

Vegetable oils and oil meals

Country	Consumption (kt)		Growth (%) ³	
	Average 2015-2017(Est)	2027	2008-17	2017-27
Chile	546	652	6	2
Colombia	1842	2226	7	1
Mexico	2772	3228	4	1
Paraguay	133	174	-2	3
Europe	30744	30058	2	-0.1
European Union	25176	24170	2	-0.3
Russia	3908	4134	4	0.3
Ukraine	756	911	-3	3
Africa	15896	21665	5	3
Egypt	2296	3049	5	2
Ethiopia	534	989	26	6
Nigeria	3145	4326	5	3
South Africa	1344	1598	5	2
Asia	107489	140269	5	2
China	35611	40957	5	1
India	23868	36782	5	4
Indonesia	12246	15777	9	2
Iran	1698	2261	3	2
Japan	2404	2454	1	-0.02
Kazakhstan	290	423	1	2
Korea	1237	1260	4	-1
Malaysia	4730	6008	4	1
Pakistan	4993	6806	5	2
Philippines	1955	2866	6	3
Saudi Arabia	730	1029	14	3
Thailand	3171	4105	9	2
Turkey	2801	3234	6	1
Viet Nam	1363	2122	8	4
OCEANIA	776	842	3	1
Australia	643	588	4	1
New Zealand	101	108	3	0
DEVELOPED COUNTRIES	53747	55029	3	0.3
DEVELOPING COUNTRIES	137843	179486	5	2
LEAST DEVELOPED COUNTRIES	8623	12628	6	3
OECD ²	53517	55009	3	0.3
BRICS	72380	92562	5	2

Source: OECD/FAO (2018); OECD-FAO Agricultural Outlook 2018-2027; OECD Agriculture Statistics (database)
Doi: dx.doi.org/10.1787/agr-outl-data-en

Note: Average 2015-17 est; Date for 2017 are estimated

- 1 Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate
2. Excludes Iceland but includes all EU28 member countries
3. Least-squares growth rate (seed glossary).

22.10 Trade Estimates of Availability of Vegetable Oils in India (November-October)

(In lakh tonnes)

Oilseeds /S.E. Oils	Oil Recovery %	2015-16	2016-17	2017-18
Oilseeds				
Groundnut	40	2	8	6
Soybean	17	10	15	12
Rapeseed & Mustard / Toria	33	19	22	22
Sunflower	35	1	1	1
Sesame	45	1	1	1
Castor	42	6	5	6
Niger	30	0.1	0.1	0.1
Safflower	30	0.1	0.2	0.1
Linseed	43	1	1	1
Sub-Total	-	40	53	49
Other Oilseeds	-	-	-	-
Cotton Seed	11	12	12	13
Copra	65	4	2	2
Sub-Total	-	16	15	15
Secondary Sources	-	-	-	-
Rice Brian	15	10	10	-
Rapeseed Cake	9	2	1	-
Sunflower Seed Cake	12	0.3	0.3	-
Groundnut Cake	7	0.2	0.7	-
Cotton Seed and Others	7	0.5	0.4	-
Minor Oilseeds (TBOS)	-	0.5	0.3	-
Local Palm Oil	-	2	2	-
Maize Oil	-	1	1	-
Sub Total	-	15	16	-
Grand Total	-	72	84	64

Source: SOPA Databank

22.11 State-wise Trade Estimate of Production and Marketable Surplus and Availability of Vegetable Oil in India (2016-17 to 2018-19) (November-October)

(In lakh tonnes)

Crop	State	2016-17	2017-18	2018-19	2019-20
Groundnut	Gujarat	30	32	17	29
	Maharashtra	4	3	3	2
	Andhra Pradesh/Telangana	7	7	6	3
	Tamil Nadu	3	4	4	2
	Karnataka	8	6	4	3
	Madhya Pradesh/Chhattisgarh	2	2	2	2
	Rajasthan	9	8	8	8
	Punjab/Haryana/Uttar Pradesh	1	1	1	1
	Odisha	2	2	2	1
	Others	2	2	1	1

Vegetable oils and oil meals

Crop	State	2016-17	2017-18	2018-19	2019-20
Soybean	Total in Shells	69	67	47	63
	Equivalent in Kernels (72.50%)	50	48	34	45
	Retained for Sowing	9	11	10	10
	Export	7	6	4	7
	Direct Consumption	15	17	17	18
	Sub Total	30	34	31	35
	Marketable Surplus (In Kernels for Crushing)	20	15	3	11
	Total Area (In Lakh ha.)	59	48	47	44
	Yield (In Kg./ha.)	1182	1389	1014	1419
	State	2016-17	2017-18	2018-19	2019-20
	Madhya Pradesh	53	41	55	42
	Maharashtra	36	29	31	31
	Andhra Pradesh/Telangana	2	1	1	1
	Rajasthan	9	7	9	7
	Karnataka	2	2	3	2
	Chhattisgarh	1	1	1	1
	Gujarat	1	-	-	-
	Others	1	2	2	2
	Total	105	83	102	89
	Retained for Sowing	11	12	12	12
	Direct Consumption Including Export	6	3	4	5
Sub Total	17	15	16	17	
Marketable Surplus for Crushing	88	68	87	72	
Total Area (In Lakh ha.)	115	106	113	114	
Yield (In Kg./ha.)	915	784	909	746	
State	2016-17	2017-18	2018-19	2019-20	
Rape/Mustard/Toria Uttar Pradesh	9	14	11	12	
Rajasthan-Mustard, Taramira	30	25	32	32	
Punjab/Haryana	7	8	8	10	
Gujarat	3	4	3	3	
Madhya Pradesh	6	8	8	6	
Chhattisgarh	-	-	-	-	
West Bengal	3	5	5	4	
Bihar	1	-	-	7	
Eastern India and Others	7	9	9	-	
Total	66	71	75	74	
Retained for Sowing and Direct Consumption	4	4	4	3	
Marketable Surplus for Crushing	63	68	71	71	
Total Area (In Lakh ha.)	71	67	69	70	
Yield (In Kg./ha.)	950	1061	1081	1065	
State	2016-17	2017-18	2018-19	2019-20	
Sunflower					
Karnataka	2	2	1	-	
Andhra Pradesh/Telangana	0.5	0.1	0.1	-	

Vegetable oils and oil meals

Crop	State	2016-17	2017-18	2018-19	2019-20
Sesame	Maharashtra	0.4	0.1	0.1	
	Tamil Nadu	-	0.4	0.1	
	Punjab	0.2			
	Haryana	-			
	Uttar Pradesh	-			
	Bihar	-		0.1	
	Others	0.5	0.2	0.2	
	Total	3	2	2	1
	Retained for Sowing,	-	-	-	
	Direct Consumption and Export				
	Marketable Surplus for Crushing	3	2	2	1
	Total Area (In Lakh ha.)	4	3	2	2
	Yield (In Kg./ha.)	836	740	768	676
	State	2016-17	2017-18	2018-19	2019-20
	Gujarat	0.6	-	0.5	
	Rajasthan	0.9	-	0.4	
	Tamil Nadu	0.1	-	0.2	
	Madhya Pradesh/Chhattisgarh	1.2	-	0.5	
	Andhra Pradesh/Telangana	0.3	-	0.2	
	Maharashtra	0.1	-	0.1	
Karnataka	0.1	-	0.1		
Uttar Pradesh/Uttarakhand	0.9	-	0.4		
West Bengal	2	-	2		
Odisha	0.7	-	0.5		
Others	0.3	-	0.3		
Total	7	7	5	7	
Retained for Sowing,	4	4	3		
Direct Consumption and Export				4	
Marketable Surplus for Crushing	2	3	2	3	
Total Area (In Lakh ha.)	19	15	17	14	
Yield (In Kg./ha.)	352	470	292	385	
State	2016-17	2017-18	2018-19	2019-20	
Gujarat	10	12	9	17	
Rajasthan	2	2	1	2	
Andhra Pradesh/Telangana	0.8	0.3	0.2	0.3	
Maharashtra and Others	-	0.2	0.2	0.2	
Total	13	14	11	20	
Retained for Sowing and Export	-	-	-		
Marketable Surplus for Crushing	13	14	11	20	
Total Area (In Lakh ha.)	8	8	7	10	
Yield (In Kg./ha.)	1262	1754	1488	1977	
State	2016-17	2017-18	2018-19	2019-20	
Niger	0.3	0.3	0.3		

Vegetable oils and oil meals

Crop	State	2016-17	2017-18	2018-19	2019-20
Safflower (Kardi)	Madhya Pradesh and Chhattisgarh	0.2	0.2	0.2	
	Others	0.2	0.2	0.2	
	Total	1	1	1	1
	Retained for Sowing,	0.3	0.3	0.3	
	Direct Consumption and Export				0.3
	Marketable Surplus for Crushing	0.4	0.4	0.4	1
	Total Area (In Lakh ha.)	2	2	2	2
	Yield (In Kg./ha.)	311	340	350	374
	State	2016-17	2017-18	2018-19	2019-20
	Maharashtra	0.3	0.2	0.1	0.1
	Karnataka	0.2	0.2	0.1	0.1
	Andhra Pradesh	0.02	0.03	0.02	0.01
	Others	0.04	0.04	0.02	0.01
	Total	0.5	0.4	0.3	0.2
	Retained for Sowing and Direct Consumption	0.1	0.1	-	
Marketable Surplus for Crushing	0.4	0.3	0.3	0.2	
Total Area (In Lakh ha.)	1.0	0.6	0.5	0.6	
Yield (In Kg./ha.)	547	710	555	356	
Linseed	State	2016-17	2017-18	2018-19	2019-20
	Madhya Pradesh/Chhattisgarh	1	1	1	1
	Uttar Pradesh	0.1	0.2	0.2	0.2
	Maharashtra	0.1	0.1	0.0	0.1
	Bihar	1	1	1	
	Nagaland	1	1		
	Others	1	1		1
	Total	2	2	2	2
	Retained for Sowing and Direct Consumption	-	-	-	0.2
	Marketable Surplus for Crushing	2	2	2	2
	Total Area (In Lakh ha.)	4	4	3	3
Yield (In Kg. /ha.)	429	386	454	549	

Source: SEA Hand Book 2020-21

22.12 Production of Solvent Extracted Oils (2014-15 to 2017-18)

Commodity (Oilcake/ Seed)	Total	2016-2017 (P)		Total	2017-2018		Total	2018-2019		Total	2019-2020		Total	2020-2021		Total
		E	I		E	I		E	I		E	I				
Ricebran	464169	361087	46859	407946	374484	37034	411518	362612	44342	406954	310530	40951	351481	336650	42067	381717
Sunflower	32998	18377	2124	20501	11679	415	12094	10692	2	10694	9039	-	9039	10283	5	10286
Rapeseed	48412	36430	1730	38160	42908	4320	47228	59889	8375	68264	57467	4649	62116	57886	1526	59412
Salseed	4961	-	2468	2468	-	4038	4038	-	3126	3126	-	6968	6968	-	1466	1466
Mango kernel	183	-	369	369	-	497	497	-	231	231	-	725	725	-	-	-
Mahua seed Oilca ke	563	108	489	597	-	595	595	-	261	261	55	784	839	31	451	482
Seasame seed	76	-	107	107	-	109	109	-	-	-	-	-	-	-	7	7
Neem seed Oilca ke	3530	-	2997	2997	-	2856	2856	-	3504	3504	-	2236	2236	-	1466	1466
Castor Oil cake	64621	-	69613	69613	-	65558	65558	-	69321	69321	-	64885	64885	-	88462	88462
Copra Oilc ake	10714	-	11024	11024	-	10679	10679	-	11632	11632	-	11195	11195	-	11712	11712
Karanja	29	-	13	13	-	3	3	-	-	-	-	-	-	-	9	9
Groundnut Cake	8993	5373	1443	6816	-	1225	9646	-	-	-	-	-	-	-	-	-
Maize	573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	639822	421375	139236	560611	429071	127329	564821	433193	140794	573987	377091	132393	509484	404850	147171	555019

Source: India Vanaspati Producers Association. (17197)

Abbr : P : Provisional, E: Edible, I: Industrial

22.13 Production of Vegetable Oil Products in India (October-November)

(In lakh tonnes)

Year	Vanaspati	Bakery Shortening	Margarine	Total
2015-16	7.3	2.0	0.3	9.6
2016-17	6.8	1.8	0.3	8.9
2017-18	5.8	2.0	0.3	8.1
2018-19	5.7	2.1	0.3	8.1
2019-20	4.9	2.1	0.2	7.2

Source: SEA Hand book 2020-21

22.14 Rice Bran Processing and Oil Production (April - March)

(Quantity = '000 MT)

Year	Processed	Produced			Extraction
		Edible	Industrial	Total	
2015-16	2951	413	52	464	2471
2016-17	2619	361	47	410	2196
2017-18	2555	374	37	412	2136
2018-19	2442	363	44	407	2044
2019-20	2136	311	41	351	1769
2020-21	2366	340	42	382	1964

Source: SEA Hand book 2020-21

22.15 State-wise, Year-wise quantity of Crude Palm Oil (CPO)

(Qty in Tonnes)

State	2015-16	2016-17	2017-18	2018-19	2019-20(P)
Andhra Pradesh	193562	190999	234696	232938	208359
Karnataka	2538	2051	2224	2280	2184
Tamil Nadu	1222	1115	938	1017	553
Odisha	618	NA	0	0	0
Goa	581	437	379	411	309
Kerala	7015	5929	5191	4609	4825
Mizoram	496	603	648	625	535
Telangana	12499	8947	27275	37205	38050
Total	218531	209644	271351	279085	254815

Source: Agricultural Statistics at a Glance 2020, Ministry of Agriculture & Farmers Welfare, Govt. of India; SEA Hand book 2020; (P) Provisional, (NA) Not Available

22.16 Trend of Increasing Imports of Edible oil over Year

Oil Year	Production of oilseeds	Net availability of edible oils from all domestic sources	Imports of edible oils	Total Availability of Edible Oils
(Nov.-Oct.)	(mt)	(mt)	(mt)	(mt)
2015-16	25	9	15	24
2016-17	31	11	14	25
2017-18	32	11	15	26
2018-19	32	10	15	25
2019-20	33	11	13	24

Source: Ministry of Agriculture; Directorate of Sugar and Vegetable Oils

22.17 Production of Vanaspati in India

Year	Production (in mt)
2015	10,41,763
2016	9,57,926
2017	8,85,125
2018	4,31,048
2019	577979
2020	471568

Source: Sea Hand Book 2020-21

22.18 Indian Vegetable Oil Industry Present Status

Type of Vegetable Oil Industry	No. of Units	Annual Capacity (Mn / T.)	Capacity Utilisation
Oil Mills (Crushing Units)	15,000	36	20-30%
Solvent Extraction Plants	600	31	40%
Vegetable Oil Refineries	650	30	50%
Vanaspati (Hydrogenated Units)	250	3	40%
Feed Units	125	66	45%

Source: Sea Hand Book 2020-21

22.19 Oil Recovery Level of Various Oilseeds

Traditional Oilseeds	% Oil Recovery	Non-Traditional Oilseeds	% Oil Recovery
Groundnut	40	Neem Fruit	20
Soybean	17	Karanja Kernel	27-39
Rapeseed	33	Kusum Seed	34
Mustard	33	Ratanjhot Seed	30-40
Toria	33	Pulu Seed	33
Sunflower	35	Tumba Seed	21
Sesamum	45	Sal Seed	12-13
Niger Seed	30	Mahua Seed	35
Safflower	30	Mango Kernel	7.5-11
Linseed	43	Cheura Kernel	60
Cotton	11	Kokum Kernel	33-34
Copra	65	Simarouba Kernel	60
Ricebran	15	Chullu Kernel	45-50
Oilpalm	60	Jojoba	50
Castor	30-50		

Source: Sea Hand Book 2020-21

22.20 Consumption of Edible Oil Growth Expectations in India by 2025

Year	Population @1.76 Growth	Consumption @ 3% Growth		Consumption @ 4% Growth		Consumption @ 5% Growth	
	In Bt	Per Capita (In Kg)	MnT	Per Capita (In Kg)	MnT	Per Capita (In Kg)	MnT
2015	1	15	19	16	20	16	20
2017	1	16	20	17	22	17	22
2019	1	17	22	18	24	19	25
2021	1	18	24	20	26	21	28
2023	1	19	25	21	28	23	31

2025	1	20	27	23	30	26	34
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Assuming 4% growth we may require 30mmt by 2025.

Imports can rise to 21-22 million ton if oilseed production stagnates.

22.21 Status of India's Edible Oils Imports and Export of Oil Cake/Meal

(Quantity in '000 tonnes; Value in Rs. Crore)

Year	Import of Edible Oils		Export of Oil Cake/Meal	
	Quantity	Value	Quantity	Value
1960-61	--	--	434	14
1970-71	--	--	879	55
1980-81	--	--	886	125
1990-91	526	326	2448	609
2000-01	4268	6039	2418	2045
2010-11	6678	29860	6937	11070
2017-18	15361	74996	3571	7043
2018-19	15019	69024	4493	10557
2019-20	14722	68558	2656	5861

Source: Economic Survey 2019-2020 (DGCI&S, Kolkata)

22.22 Month-wise Export of Castor Oil from India

(Quantity in Mt Bulk + Container; Value Rs. in Crores)

Year	2013-14		2014-15		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22	
Month	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value
April	39422	299	38661	319	48511	353	45378	282	63721	565	50312	446	55568	618	41461	364	57226	599
May	59900	439	47176	382	46731	350	52133	348	59259	601	65545	605	44615	499	71908	631	74070	774
June	38868	298	45824	375	47257	371	57814	385	50647	507	56920	502	46295	542	54179	452	81759	855
July	57214	432	36766	308	35756	288	44866	291	45387	437	40423	345	51962	588	70882	576	60975	683
August	39196	313	38960	334	37517	309	42252	280	54365	525	45907	408	51601	612	49573	428	50765	564
September	43139	337	34285	298	45105	370	43332	317	60219	719	47881	455	37434	430	55398	464	--	--
October	31228	232	17600	151	37205	301	53207	408	52732	510	45831	452	42068	459	58456	506	--	--
November	21307	158	20189	175	45002	377	38026	304	49976	492	38321	377	40866	408	51920	472	--	--
December(P)	38744	293	47104	421	50578	423	38442	305	52950	512	40317	425	35931	340	63031	588	--	--
January(P)	28490	245	36501	338	46250	386	36001	289	45531	422	39433	420	43741	411	42073	397	--	--
February(P)	38974	319	37018	311	46327	320	47540	377.90	55763	508	39215	436	45900	406	46805	442	--	--
March (P)	35773	293	59294	459	57035	350	57787	469	60776	546	50956	538	51665	465	80742	763	--	--
Total	472255	3658	459378	3869	543274	4198	556778	4057	651326	6345	561061	5408	547646	5778	686428	6082	--	--

Source: SEA Hand Book 2020-21

22.23 Consumption of Vegetable Oils Worldwide (2013-14 - 2020-2021)

(In million metric tons)

Oil Type	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Average	Minimum	Maximum
Palm oil	58	58	59	62	65	73	72	75	65	58	75
Soybean oil	45	48	52	53	55	55	57	59	53	45	59
Sunflower seed oil	14	14	15	17	18	18	20	19	17	14	20
Palm Kernel oil	7	7	7	7	8	8	8	9	8	7	9
Peanut oil	6	5	5	6	6	6	6	6	6	5	6
Cottonseed oil	5	5	4	4	5	5	5	5	5	4	5
Coconut oil	3	3	3	3	3	3	4	4	3	3	4
Olive oil	3	3	3	3	3	3	3	3	3	3	3
Rapeseed oil	26	27	28	29	29	28	28	28	28	26	29

Source: <https://www.statista.com/statistics/263937/vegetable-oils-global-consumption>

22.24 Trends in Percentage Composition of Consumer Expenditure on Edible Oil since 1993-94

Item Group	Rural					Urban				
	Share in total consumer expenditure					Share in total consumer expenditure				
	1993-94	1999-2000 (*)	2004-05	2009-10	2011-12	1993-94	1999-2000(*)	2004-05	2009-10	2011-12
Edible Oil	4	4	5	4	4	4	3	4	3	3
Food Total	63	59	55	54	49	55	48	43	41	39
Non-Food Total	37	41	45	46	51	45	52	58	59	62
Total Expenditure	100	100	100	100	100	100	100	100	100	100

Source: Agricultural Statistics at a Glance, 2020; National Statistical Office (NSO)

(*) Uniform Reference Period (URP) estimates shown except for 1999-2000, for which only Mixed Reference Period (MRP) estimates are available

23. Oilseeds Exports

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23.1 India's Exports of Groundnut Commodities 2015-16 to 2020-21 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Groundnut (kernels)	514.78	3923.29	690.60	5240.05	480.08	3269.21
Groundnut (pods)	21.54	113.72	31.29	181.76	18.29	88.02
Groundnut seed	6.41	38.63	3.82	22.53	5.67	29.07
Crude groundnut oil	4.66	43.76	6.12	66.08	4.30	35.90
Edible grade groundnut oil	1.83	17.41	4.71	49.36	5.91	50.72
Non-edible groundnut oil	0.10	1.47	0.34	4.90	1.97	17.79
Other groundnut oil and its fractions	0.00	0.04	0.0015	0.04		
Groundnut oil-cake and meal (expeller)	0.16	0.38	0.20	0.53		
Groundnut oil-cake and meal (solvent extracted)	3.51	10.49	5.93	14.02	8.39	15.66
Peanut Butter	0.53	9.93	1.60	21.28	1.67	21.65
Grand Total	553.51	4159.13	744.59	5600.55	526.26	3528.02
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Groundnut (kernels)	473.16	3213.12	647.82	5000.04	626.36	5307.27
Groundnut (pods)	10.74	54.72	12.71	72.19	10.91	64.67
Groundnut seed	5.29	29.48	3.92	24.16	1.05	8.30
Crude groundnut oil			28.34	288.26	215.09	3017.31
Edible grade groundnut oil	15.53	127.54	9.83	102.05	26.06	368.70
Non-edible groundnut oil	1.52	15.14	4.51	50.01	2.19	32.20
Other groundnut oil and its fractions	0.0008	0.01	0.01	0.15	0.00039	0.02
Groundnut oil-cake and meal (expeller)					1.02	2.60
Groundnut oil-cake and meal (solvent extracted)	14.73	31.66	5.11	12.84	38.06	96.47
Peanut Butter	0.40	5.02	0.75	14.72	0.75	15.42
Grand Total	521.37	3476.69	713.00	5564.40	921.49	8912.96

23.2 India's Exports of Rape seed/Colza Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Rape/colza seeds	0.10	0.38	0.22	0.88	0.01	0.37
Crude rapeseed/colza oil	0.03	0.52	0.02	0.16	0.0009	0.02
Other crude low erucic acid rape/ colza oil	0.0031	0.03	0.01	0.05	0.0017	0.02
Other low erucic acid rape colza oil other than crude	0.01	0.20	0.01	0.07	0.01	0.13
Refined rapeseed oil of edible grade	0.01	0.05	0.01	0.05	0.0007	0.02
Edible grade (refined) rapeseed/colza oil	0.03	0.33	0.01	0.16	0.02	0.29
Low erucic acid of rape or colza seeds	14.37	25.25	1.72	3.31	0.000014	0.000032
Other residues of rape or colza seeds	497.91	893.82	339.95	635.49	603.77	913.12
Grand Total	512.45	920.58	341.94	640.17	603.82	913.97
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Rape/colza seeds	0.03	1.77	0.03	0.17	0.01	0.04
Crude rapeseed/colza oil	0.00	0.01	0.01	0.09	0.01	0.13
Other crude low erucic acid rape/ colza oil			0.01	0.14	0.02	0.72
Other low erucic acid rape colza oil other than crude	0.04	0.51	0.09	1.10	0.10	2.34
Refined rapeseed oil of edible grade	0.0009	0.02	0.01	0.13	1.56	15.66
Edible grade (refined) rapeseed/colza oil	0.000040	0.0012	0.0032	0.14	0.04	0.52
Low erucic acid of rape or colza seeds	0.60	0.95			12.79	29.57
Other residues of rape or colza seeds	958.55	1557.37	867.60	1421.77	989.65	1813.11
Grand Total	959.22	1560.61	867.75	1423.55	1004.18	1862.10

23.3 India's Exports of Mustard Commodities 2015-16 to 2020-21 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Mustard seeds	16.40	70.20	14.26	67.38	17.28	76.03
Other rape, colza, mustard oils	0.22	3.89	0.10	1.48	0.05	0.81
Crude mustard oil	2.01	27.12	2.29	31.30		
Edible grade (refined) mustard oil	0.12	2.02	0.07	0.79	3.27	43.21
Oil-cake and meal of mustard (solvent extracted (defatted))	3.34	7.23	9.22	20.47	3.64	7.15
Oil-cake and meal of mustard (expeller)	93.29	193.68	101.39	227.44	85.30	163.60
Mustard oil aroma	0.06	21.20	0.08	28.18	0.06	24.86
Grand Total	115.43	325.34	127.40	377.04	109.61	315.66
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Mustard seeds	29.49	131.51	31.76	137.74	55.10	282.18
Other rape, colza, mustard oils	0.01	0.23	0.14	2.48	0.37	6.98
Crude mustard oil	0.0012	0.01	0.13	1.41	0.26	4.27
Edible grade (refined) mustard oil	3.92	50.77	3.65	46.57	5.16	76.30
Oil-cake and meal of mustard (solvent extracted (defatted))	2.25	4.51	26.20	50.27	4.55	9.57
Oil-cake and meal of mustard (expeller)	180.36	353.13	152.01	313.86	134.27	308.52
Mustard oil aroma	0.19	24.84	0.12	27.32	0.11	33.15
Grand Total	216.22	565.00	214.01	579.65	199.82	720.98

23.4 India's Exports of Soybean Commodities 2015-16 to 2020-21 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Soybean seed	185.86	828.06	183.30	758.86	275.35	1004.84
Flours and meals of soybeans	88.19	380.90	91.24	369.20	44.13	153.89
Crude soybean oil	0.04	0.33	0.04	0.22	0.06	0.49
Edible grade soybean oil	1.38	10.60	0.18	1.52	1.15	9.17
Non-edible grade soybean oil	1.21	8.18	0.21	2.85	2.57	20.53
Oil-cake and meal of soybean (expeller)	56.62	232.39	144.01	545.95	229.88	789.97
Meal of soybean, solvent extracted (defatted)	285.27	1034.82	833.06	2327.35	1218.61	3176.15
Oil cake of soybean, solvent extracted (defatted)	6.37	21.05	55.31	158.76	146.95	386.92
Other solid residues resulting from of extraction soybean oil	64.73	231.94	243.80	699.64	299.01	777.37
Isolated soyprotein	0.04	0.82	0.11	1.07	0.21	2.47

Oilseeds Exports

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Grand Total	689.71	2749.09	1551.25	4865.42	2217.93	6321.82
Soybean seed	197.81	810.31	74.67	312.59	68.52	313.92
Flours and meals of soybeans	20.84	113.91	23.53	117.93	20.90	117.29
Crude soybean oil			2.03	16.30	3.27	27.56
Edible grade soybean oil	4.25	38.20	8.29	75.06	10.72	116.43
Non-edible grade soybean oil	3.29	27.73	2.02	19.67	0.44	5.03
Oil-cake and meal of soybean (expeller)	418.29	1642.93	397.86	1677.37	672.71	3052.66
Meal of soybean, solvent extracted (defatted)	1561.16	4643.68	343.98	1197.37	1040.19	3925.42
Oil cake of soybean, solvent extracted (defatted)	174.84	555.15	8.56	29.70	69.21	249.92
Other solid residues resulting from of extraction soybean oil	286.63	932.10	120.59	447.07	286.63	1124.69
Isolated soyprotein	0.07	2.54	0.16	3.75	0.88	16.83
Grand Total	2667.18	8766.54	981.70	3896.82	2173.47	8949.75

23.5 India's Exports of Sesame Commodities 2015-16 to 2020-2021 (April-March) (Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Sesame seeds	328.46	3012.31	307.33	2695.84	336.85	2990.93
Crude sesame oil	0.21	4.52	1.60	18.70	0.36	4.60
Edible grade sesame oil	2.60	45.20	2.98	49.54	4.19	75.79
Non-edible grade sesame oil	4.96	62.06	5.08	57.76	4.90	59.82
Oil-cake and meal of sesamum (solvent extracted)	0.62	1.81	0.24	0.86	0.04	0.28
Oil-cake and meal of sesamum (expeller)	0.79	1.74	0.84	2.42	1.74	3.67
Grand Total	337.63	3127.64	318.07	2825.11	348.09	3135.09
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Sesame seeds	312.00	3761.62	282.26	3723.31	273.26	3159.47
Crude sesame oil	0.00	0.03	0.76	13.31	2.27	38.75
Edible grade sesame oil	4.98	106.84	4.86	123.41	6.47	175.36
Non-edible grade sesame oil	4.95	76.27	4.13	75.73	2.31	48.11
Oil-cake and meal of sesamum (solvent extracted)	0.06	0.15	0.01	0.15	0.26	1.23
Oil-cake and meal of sesamum (expeller)	1.92	4.71	0.71	2.82	0.76	3.14
Grand Total	323.92	3949.62	292.73	3938.72	285.32	3426.05

Oilseeds Exports

23.6 India's Exports of Niger Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Niger seeds	14.12	123.27	14.07	117.22	9.22	69.86
Oil-cake and of niger seeds solvent extracted (defatted) variety			0.02	0.04		
Grand Total			14.09	117.26	9.22	69.86

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Niger seeds	13.37	95.50	13.83	106.01	19.59	160.23

23.7 India's Exports of Linseed Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Linseed seed	9.84	64.40	5.92	48.80	10.04	64.53
Crude linseed oil and its fractions	0.03	0.38	0.02	0.31	0.01	0.18
Edible grade linseed oil	0.04	0.88	0.05	0.66	0.03	0.61
Non-edible linseed oil and its fractions	0.06	0.64	0.07	0.76	0.09	0.93
Other linseed oil and its fractions	0.12	2.31	0.15	3.16	0.12	2.76
Oil-cake and meal of linseed expeller variety	0.03	0.04				
Oil-cake and meal of linseed solvent extracted (defatted) variety	0.23	0.41	0.60	0.90	0.24	0.36
Other solid residues resulting from extraction of linseed oil	3.29	6.20	1.44	3.02	1.93	2.99
Pigments in linseed oil etc.	0.65	14.32	1.20	24.92	1.22	22.51
Grand Total	14.29	89.58	9.44	82.53	13.69	94.86

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Linseed seed	11.77	74.05	12.00	80.88	11.94	85.89
Crude linseed oil and its fractions	0.0042	0.05	0.03	0.33	0.04	0.55
Edible grade linseed oil	0.03	1.14	0.05	1.10	0.10	2.21
Non-edible linseed oil and its fractions	0.11	1.27	0.06	0.87	0.16	2.24
Other linseed oil and its fractions	0.15	2.68	0.17	4.72	0.28	10.62
Oil-cake and meal of linseed expeller variety	0.77	0.92	0.11	0.38	0.06	0.19
Oil-cake and meal of linseed solvent extracted (defatted) variety	0.02	0.02	0.10	0.34	0.84	3.25
Other solid residues resulting from extraction of linseed oil	1.38	3.54	0.77	2.92	1.45	5.93
Pigments in linseed oil etc.	0.93	19.49	1.03	21.77	1.05	19.80
Grand Total	15.17	103.15	14.32	113.32	15.93	130.68

Oilseeds Exports

23.8 India's Exports of Sunflower Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Sunflower seeds	4.29	22.72	2.66	11.15	5.61	22.61
Crude sunflower oil	0.11	0.87	0.00	0.08		
Edible grade sunflower oil	2.61	22.66	2.34	21.39	2.54	21.64
Sunflower oil non edible grade (excluding crude oil)	0.26	3.88	0.32	3.04	0.47	3.17
Oil-cake and meal of sunflower (expeller variety)	1.39	2.65	0.82	1.53	0.11	0.17
Oil-cake and oil-cake meal of sunflower (solvent extracted (defatted))	0.48	0.96	0.31	0.65	1.47	1.78
Grand Total	9.14	53.74	6.45	37.84	10.21	49.37

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Sunflower seeds	2.34	11.64	1.20	6.15	1.34	8.69
Crude sunflower oil					0.0011	0.01
Edible grade sunflower oil	3.67	30.09	2.55	22.95	3.42	33.67
Sunflower oil non edible grade (excluding crude oil)	0.47	4.11	0.16	2.11	0.17	2.89
Oil-cake and meal of sunflower (expeller variety)			0.06	0.24	0.03	0.11
Oil-cake and oil-cake meal of sunflower (solvent extracted (defatted))	1.37	2.61	0.97	1.91	0.54	1.21
Grand Total	7.86	48.44	4.93	33.36	5.50	46.58

23.9 India's Exports of Safflower Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Safflower seeds	7.51	26.86	8.12	29.53	6.73	27.78
Crude safflower oil	0.001	0.02	0.0027	0.08	0.01	0.16
Edible grade saffola oil	0.13	1.70	0.11	2.06	0.08	1.46
Non edible grade saffola oil	0.00	0.01	0.0040	0.08	0.0003	0.0043
Grand Total	7.64	28.60	8.23	31.74	6.82	29.40

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Safflower seeds	4.45	20.47	2.61	14.14	3.98	19.00
Crude safflower oil			1.21	11.21	0.74	5.05
Edible grade saffola oil	0.13	2.53	0.17	2.84	0.09	1.85
Non edible grade saffola oil	0.01	0.09				
Grand Total	4.59	23.09	4.00	28.19	4.81	25.91

Oilseeds Exports

23.10 India's Exports of Castor Commodities 2015-16 to 2020-2021 (April-March) (Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Castor seeds	0.35	1.39	0.01	0.18	0.11	0.61
Castor oil of edible grade	0.21	2.50	0.15	1.72	0.08	1.39
Edible grade (dehydrated) castor oil	0.0009	0.01			0.0015	0.04
Edible grade (hydrogenated) castor oil (opl wax)			0.00003	0.00021		
Non-edible (hydrogenated) castor oil (opal wax)	42.06	388.89	42.93	371.87	44.35	477.85
Non-edible grade (dehydrated) Castor oil	1.23	13.26	1.33	13.74	1.34	16.83
Other castor oil and its fractions	543.27	4211.44	554.78	4134.18	651.33	6233.89
Oil cake and meal of castor seeds expeller variety	0.12	0.15	0.06	0.05	0.18	0.32
Oil-cake and meal of castor seeds solvent extracted (defatted) variety	548.68	378.37	510.88	252.78	434.95	211.65
Sulphonated or sulphated or oxidized or castor ,fish ,sperm , meat, foot oil	0.76	6.27	1.06	5.98	0.55	5.20
Grand Total	1136.69	5002.28	1111.19	4780.50	1132.89	6947.78

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Castor seeds	0.04	0.99	4.46	26.21	7.94	36.08
Castor oil of edible grade	0.14	2.11	1.83	22.64	0.17	6.21
Edible grade (dehydrated) castor oil	0.0002	0.0033	0.0003	0.007	0.002	0.03
Edible grade (hydrogenated) castor oil (opl wax)	0.0001	0.0032	0.01	0.10	0.0005	0.02
Non-edible (hydrogenated) castor oil (opal wax)	44.13	497.61	43.63	530.45	46.87	505.28
Non-edible grade (dehydrated) Castor oil	1.11	14.67	0.78	10.80	0.86	10.63
Other castor oil and its fractions	573.99	5655.72	547.66	5759.84	686.43	6279.82
Oil cake and meal of castor seeds expeller variety	0.04	0.08	0.15	2.19	0.21	4.19
Oil-cake and meal of castor seeds solvent extracted (defatted) variety	347.17	212.11	495.85	358.74	419.53	267.65
Sulphonated or sulphated or oxidized or castor ,fish ,sperm , meat, foot oil	0.67	7.02	0.42	4.95	0.51	4.73
Grand Total	967.29	6390.31	1094.79	6715.93	1162.51	7114.64

Oilseeds Exports

23.11 India's Exports of Coconut Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Copra	4.39	36.48	18.23	129.78	3.03	34.84
Crude coconut oil and fractions	0.08	1.80	16.44	157.77	0.31	5.35
Refined coconut oil and fractions	6.73	138.16	17.06	222.49	7.02	137.82
Oil-cake and meal of coconut/copra (expeller)			0.03	0.08	0.002	0.01
Oil-cake and meal of coconut/copra (solvent extracted (defatted))	0.00002	0.00021			0.02	0.05
Other residues of coconut or copra	0.14	0.34	0.20	0.64	0.19	1.96
Grand Total	11.34	176.77	51.96	510.75	10.56	180.02
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Copra	2.20	34.51	2.33	36.14	2.30	33.33
Crude coconut oil and fractions	0.01	0.24	0.05	1.66	0.24	9.44
Refined coconut oil and fractions	6.80	136.48	7.82	140.04	12.03	246.46
Oil-cake and meal of coconut/copra (expeller)			0.02	0.08	0.02	0.22
Oil-cake and meal of coconut/copra (solvent extracted (defatted))	0.00001	0.00017				
Other residues of coconut or copra	0.37	0.73	0.15	0.40	0.03	0.39
Grand Total	9.39	171.95	10.38	178.32	14.62	289.83

23.12 India's Exports of Palm oil Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Palm kernels	0.10	1.02	0.0001	0.0049	0.01	0.04
Palm nuts	0.0022	0.03			0.02	0.21
Crude palm kernel/babasu oil and its fractions			0.0002	0.0024		
Crude palm oil and its fractions	0.00	0.01	0.0002	0.0024		
Edible (refined) palm kernel/babasu oil and its fractions	0.01	0.07			0.01	0.25
Refined palm kernel/babasu oil and its fractions	0.65	18.67	0.07	1.90	0.02	0.48
Refined bleached deodorized palm oil	0.01	0.13	0.01	0.04	0.01	0.10

Oilseeds Exports

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Refined bleached deodorized palmolein	0.02	0.12	0.05	0.32	0.11	1.16
Other refined palm oil	0.09	0.82	0.10	0.74	0.05	0.54
Palm stearin	15.37	59.60	3.19	37.12	9.05	40.38
Palmarosa oil	0.04	9.27	0.04	8.14	0.04	12.01
Grand Total	16.31	89.75	3.45	48.28	9.32	55.15

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Palm kernels	0.01	0.08	0.0028	0.07	0.04	0.17
Palm nuts	0.01	0.23	0.0028	0.03	0.01	0.25
Crude palm kernel/babasu oil and its fractions					0.0027	0.08
Crude palm oil and its fractions			0.000003	0.00048	0.00014	0.00245
Edible (refined) palm kernel/babasu oil and its fractions	0.01	0.37	0.02	0.23	0.02	0.63
Non-edible (refined) palm kernel/babasu oil and its fractions			0.0001	0.0008	0.00004	0.01
Refined palm kernel/babasu oil and its fractions	0.02	1.27	0.15	3.48	0.06	1.49
Refined bleached deodorized palm oil	0.05	0.35	0.02	0.29	0.00	0.00
Refined bleached deodorized palm stearin	0.07	0.50	0.42	2.49	1.04	6.57
Refined bleached deodorized palmolein			0.06	0.41	0.10	1.02
Other refined palm oil	0.25	0.29	0.04	0.28	0.05	0.78
Oil-cake and other residue of palm nut/kernel	1.36	8.56	1.60	1.89	0.80	1.02
Palmarosa oil	0.06	20.89	0.05	14.08	0.07	13.00
Grand Total	1.83	32.54	2.37	23.24	2.19	25.01

23.13 India's Exports of Cotton Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Cotton seeds	0.37	0.99	0.06	2.74	0.23	5.58
Edible grade cotton seed oil	0.01	0.17	0.03	0.20	0.08	0.77
Non-edible cotton seed oil and its fractions	0.50	9.77	1.58	16.96	0.01	0.15
Other cotton seed oil and its fractions	0.08	0.57	0.03	0.28	0.42	5.59
Oil-cake and meal decorticated expeller variety of cotton seeds	9.96	28.29	7.82	15.61	5.16	8.78

Oilseeds Exports

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Oil-cake and meal decorticated, solvent extracted (defatted) variety of cotton seeds	3.89	8.99	3.70	9.01	1.88	3.83
Oil-cake and meal undecorticated expeller variety of cotton seeds	0.03	0.06				
Oil-cake and meal undecorticated, solvent extracted (defatted) variety of cotton seeds	2.61	7.25	8.01	20.39	5.65	11.58
Other residues of cotton seed	30.70	55.62	41.34	81.39	25.57	38.10
Grand Total	48.14	111.71	62.57	146.57	39.00	74.39
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Cotton seeds	0.22	10.10	0.38	24.78	0.74	23.28
Edible grade cotton seed oil	0.52	6.18	0.48	3.96	0.14	3.55
Non- edible cotton seed oil and its fractions	0.01	0.24	0.02	0.43	0.02	0.69
Other cotton seed oil and its fractions	0.49	8.42	0.05	1.15	0.05	0.71
Oil-cake and meal decorticated expeller variety of cotton seeds	1.90	2.76	1.84	4.30	0.31	0.71
Oil-cake and meal decorticated, solvent extracted (defatted) variety of cotton seeds	0.76	2.22	1.48	4.48	1.17	4.52
Oil-cake and meal undecorticated expeller variety of cotton seeds	0.13	0.28	0.02	0.05		
Oil-cake and meal undecorticated, solvent extracted (defatted) variety of cotton seeds	5.63	12.69	1.66	4.22	0.74	1.86
Other residues of cotton seed	29.97	38.37	31.40	59.09	20.49	33.91
Grand Total	39.49	80.97	37.45	102.69	23.68	69.26

23.14 India's Exports of Other Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tons; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Ajams seeds	0.10	0.55	0.00035	0.007	0.000037	0.001
Jajoba seed	0.00011	0.06	0.00005	0.024		
Kokum	0.11	9.93	0.03	0.89	0.03	0.85
Mango kernel			0.01	0.25	0.01	0.34
Neem seed	0.0004	0.0089	0.0005	0.01	0.00031	0.0045
Poppy seeds	0.06	3.55	0.06	4.93	0.09	4.65
Psyllium seed (isobgul)	1.55	30.05	1.01	17.25	0.86	14.19
Melon seeds	0.04	6.09	0.07	13.43	0.28	18.12
Other oil seeds and oleaginous fruits	4.08	47.38	1.12	24.15	3.86	28.38
Other flours and meals	0.66	6.90	7.17	27.15	1.60	7.84
Olive oil virgin	0.02	0.49	0.03	1.21	0.0023	0.13
Edible grade olive oil and its fractions (excluding virgin)	0.0036	0.13	0.01	0.12	0.01	0.33
Non-edible grade olive oil and its fractions (excluding virgin)	0.32	2.50	0.01	0.05	0.0029	0.11
Other olive oil and its fractions (excluding virgin)	0.01	0.43	0.0043	0.16	0.01	0.15
Edible grade maize (corn) oil	0.10	1.78	0.0022	0.05		
Non-edible maize (corn) oil	0.03	0.36	0.06	1.41	0.0037	0.19
Other (sunflower/safflower oil)	0.09	1.15	0.03	0.96	0.0039	0.12
Other vegetable oils and fats	8.44	200.42	0.03	0.46	0.47	3.32
Other fixed vegetable oils and its fractions	13.18	169.00	7.84	171.02	16.36	235.81
Margarine	0.37	3.20	1.33	20.35	1.85	31.95
Sal fat	0.06	0.64	2.33	22.99	1.03	10.35
Edible vegetable waxes	0.01	0.12	0.04	0.59	0.04	0.53
Other vegetable waxes	0.20	4.96	0.02	0.37	0.03	0.49
Oil-cake and meal, expeller variety (mowra, mango kernel, neem seed, sal de-de-oiled and other seeds)	5.51	13.34	0.89	8.37	0.54	8.76
Oil-cake and meal of mango kernel solvent extracted (defatted) variety			4.76	12.64	15.98	33.23
Oil-cake and meal of neem seed solvent extracted (defatted) variety	0.41	1.24	0.35	1.11	0.42	1.30
Residues of seed extraction (maize, babool)			0.02	0.04		
Grand Total	37.39	528.65	40.99	499.57	58.46	579.66

Oilseeds Exports

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Ajams seeds	0.00020	0.003	0.0002	0.0027	0.0027	0.05
Jajoba seed			0.05	0.10	0.0032	0.10
Kokum	0.03	0.68	0.04	0.80	0.05	1.14
Mango kernel	0.01	0.55	0.01	0.48	0.0047	0.21
Neem seed	0.07	0.17	0.10	0.16	0.02	0.05
Poppy seeds	0.08	4.79	0.06	5.88	0.11	6.57
Psyllium seed (isobgul)	2.27	38.45	1.70	27.75	1.45	24.32
Melon seeds	0.44	19.92	0.36	26.31	0.70	40.95
Other oil seeds and oleaginous fruits	1.68	18.89	1.38	12.84	2.07	23.76
Other flours and meals	0.33	3.08	0.51	6.00	0.83	8.88
Olive oil virgin	0.0046	0.17	0.02	0.30	0.0046	0.19
Edible grade olive oil and its fractions (excluding virgin)	0.02	0.51	0.04	1.08	0.02	0.83
Non-edible grade olive oil and its fractions (excluding virgin)	0.01	0.07	0.01	0.09	0.0016	0.08
Other olive oil and its fractions (excluding virgin)	0.01	0.32	0.02	0.51	0.02	0.81
Crude maize (corn) oil and its fractions			0.0002	0.0021		
Edible grade maize (corn) oil	0.01	0.19	0.000042	0.0008	0.07	0.65
Non-edible maize (corn) oil	0.01	0.32	0.01	0.47	0.01	0.69
Other (sunflower/safflower oil)	0.12	2.02	0.02	0.82	0.06	2.26
Other vegetable oils and fats	9.43	212.93	4.30	64.40	3.23	41.59
Other fixed vegetable oils and its fractions	19.54	286.32	24.99	511.88	22.32	483.77
Other fixed vegetable fats and oil and their fractions	2.63	43.63	4.15	62.34	6.88	114.73
Margarine	0.27	3.70	0.21	2.52	0.16	2.72
Sal fat	0.09	0.82	0.06	0.57	0.07	0.65
Edible vegetable waxes	0.01	0.49			0.0001	0.0007
Other vegetable waxes	0.36	8.78	0.04	2.20	0.05	4.53
Oil-cake and meal, expeller variety (mowra, mango kernel, neem seed, sal de-oiled and other seeds)	3.63	9.57	0.63	21.74	1.42	23.53
Oil-cake and meal of neem seed solvent extracted (defatted) variety	0.16	0.53	3.93	9.80	4.31	12.40
Oil-cake and meal of sal (de-oiled solvent extracted (defatted) variety			0.22	0.95	0.37	1.56
Residues of seed extraction (maize, babool)			0.000010	0.000022		
Grand Total	41.18	656.90	42.85	759.99	44.24	797.02

24. Oilseeds imports

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24.1 India's Imports of Groundnut Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Groundnut (kernels)	0.11	0.31	0.33	1.39	1.72	13.04
Non-edible groundnut oil	0.02	1.05	0.03	0.92	0.04	1.07
Other groundnut oil and its fractions	0.02	0.32				
Groundnut oil-cake and meal (solvent extracted)	0.39	0.48	0.10	0.19		
Peanut Butter	0.00	0.00				
Grand Total	0.54	2.17	0.46	2.51	1.76	14.11
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Groundnut seed			0.01	0.087059		
Groundnut (pods)	0.05	0.24	0.04	0.16	0.0001	0.0010
Groundnut (kernels)	1.03	7.89	1.91	11.22	1.04	7.95
Crude groundnut oil	0.00002	0.00347	0.00006	0.01	0.00004	0.01
Edible grade groundnut oil	0.03	0.53	0.00	0.25	0.01	0.45
Non-edible groundnut oil	0.03	2.46	0.03	3.55	0.04	1.31
Groundnut oil-cake and meal (solvent extracted)	0.13	0.38	0.09	0.25		
Peanut Butter	0.0009	0.01				
Grand Total	1.28	11.53	2.07	15.53	1.09	9.72

24.2 India's Imports of Rape seed/Colza Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Rape/colza seeds	0.03	0.95				
Crude rapeseed/colza oil	289.05	1561.34	412.97	2303.66	299.20	1638.76
Edible grade (refined) rapeseed/colza oil	19.65	109.91	1.59	11.02	1.56	10.42
Refined rapeseed oil of edible grade	0.07	0.67	0.01	0.09	0.02	0.29
Other low erucic acid rape colza oil other than crude	0.02	0.14	0.03	0.22	0.04	0.49
Low erucic acid of rape or colza seeds	1.88	3.82	1.31	2.40	0.10	0.24
Other residues of rape or colza seeds			0.08	0.13	0.05	0.12
Grand Total	310.69	1676.85	415.98	2317.52	300.97	1650.31
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value

Oilseeds imports

	Quantity	Value	Quantity	Value	Quantity	Value
Rape/colza seeds	0.0018	0.01			0.02	0.10
Crude rapeseed/colza oil	158.92	852.76	50.40	307.84	42.27	266.92
Edible grade (refined) rapeseed/colza oil	0.35	3.20	0.38	3.50	0.42	4.94
Refined rapeseed oil of edible grade	0.03	0.31	0.00003	0.0045	0.0002	0.01
Other low erucic acid rape colza oil other than crude	0.05	0.70	0.02	0.39	0.02	0.29
Other residues of rape or colza seeds	0.06	0.17	0.02	0.04		
Grand Total	159.42	857.14	50.82	311.78	42.73	272.26

24.3 India's Imports of Mustard Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Mustard seeds	1.33	8.18	0.85	4.79	0.32	1.80
Crude mustard oil	0.20	1.07	0.03	0.26	0.0001	0.0018
Other rape, colza, mustard oils	0.20	1.98	0.02	0.52	0.01	0.08
Oil-cake and meal of mustard (expeller)	24.87	48.96	32.37	69.11	36.26	84.37
Oil-cake and meal of mustard (solvent extracted (defatted))	2.81	14.70	5.21	20.37	3.55	17.01
Mustard oil aroma			0.00019	0.20	0.00006	0.04
Grand Total	29.41	74.89	38.48	95.25	40.14	103.31
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Mustard seeds	0.03	0.20	0.01	0.04	0.32	1.49
Crude mustard oil			3.62	27.00	0.01	0.13
Other rape, colza, mustard oils	0.003	0.06	0.0011	0.04	0.0020	0.04
Edible grade (refined) mustard oil	0.001	0.01				
Oil-cake and meal of mustard (expeller)	40.66	88.24	41.16	89.82	44.15	96.18
Oil-cake and meal of mustard (solvent extracted (defatted))	3.90	13.95	5.22	17.69	12.06	38.61
Mustard oil aroma	0.0004	0.06	0.00015	0.14	0.0004	0.43
Grand Total	44.60	102.52	50.01	134.74	56.54	136.88

24.4 India's Imports of Soybean Commodities 2015-16 to 2020-21 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Soybean seed	20.71	81.90	81.38	283.47	89.12	269.49
Flours and meals of soybeans	0.002	0.02	0.04	0.31	0.001	0.01
Crude soybean oil	3964.01	19419.01	3464.46	18703.41	3152.17	16488.79
Edible grade soybean oil	0.02	0.50	0.02	0.69	0.11	1.68
Non-edible grade soybean oil	1.11	8.49	0.11	3.19	0.09	2.53
Oil-cake and meal of soybean (expeller)	0.03	0.65	2.11	8.86	4.06	14.85
Oil cake of soybean, solvent extracted (defatted)	4.24	12.65	4.63	13.88		
Meal of soybean, solvent extracted (defatted)	0.14	0.36	3.05	9.40	0.50	1.95
Other solid residues resulting from of extraction soybean oil	1.84	5.40	24.69	70.96	0.05	0.79
Isolated soy protein	5.77	138.94	5.58	125.19	4.47	94.28
Grand Total	3997.86	19667.91	3586.07	19219.36	3250.57	16874.36
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Soybean seed	157.05	536.27	360.65	1346.24	460.64	1992.69
Flours and meals of soybeans	0.000003	0.0007	0.0002	0.02	0.16	1.10
Crude soybean oil	3165.91	16372.65	3239.82	16705.99	3421.13	21027.10
Edible grade soybean oil	22.47	167.14	73.39	610.81	218.30	2112.02
Non-edible grade soybean oil	0.18	4.64	0.44	6.69	0.23	6.12
Oil-cake and meal of soybean (expeller)	42.95	112.43	0.86	3.74	7.32	26.74
Meal of soybean, solvent extracted (defatted)	0.003	0.16	0.07	0.37	19.51	62.79
Other solid residues resulting from of extraction soybean oil	0.13	2.38	0.30	2.50	1.43	7.10
Isolated soy protein	7.19	183.25	6.67	159.52	7.28	190.20
Grand Total	3395.87	17378.92	3682.19	18835.90	4136.01	25425.86

24.5 India's Imports of Sesame Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Sesame seeds	23.60	179.66	69.03	442.15	26.27	176.77
Crude sesame oil	0.38	3.30	0.88	6.92	0.05	0.40
Edible grade sesame oil	0.06	1.56	0.01	0.40	0.09	3.88
Non-edible grade sesame oil	0.06	2.64	0.12	5.58	0.07	2.96
Oil-cake and meal of sesamum (expeller)					0.03	0.05

Oilseeds imports

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Oil-cake and meal of sesamum(solvent extracted)	0.03	0.07	0.06	0.10		
Grand Total	24.12	187.23	70.10	455.15	26.51	184.06

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Sesame seeds	87.54	875.17	147.17	1450.19	103.24	910.76
Crude sesame oil	0.01	0.01	2.02	28.68	0.66	8.54
Edible grade sesame oil	0.05	2.33	0.08	2.31	0.01	0.33
Non-edible grade sesame oil	0.08	3.51	0.12	8.50	0.06	6.44
Oil-cake and meal of sesamum(solvent extracted)			0.00001	0.02	0.11	0.24
Grand Total	87.68	881.02	149.40	1489.70	104.08	926.31

24.6 India's Imports of Niger Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Niger seeds	5.78	44.14	10.66	82.82	5.33	29.00

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Niger seeds	8.66	40.62	4.70	24.42	5.91	40.70

24.7 India's Imports of Linseed Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Linseed seed	0.50	2.13	1.53	6.22	0.87	3.22
Crude linseed oil and its fractions			4.40	27.35	4.61	25.76
Edible grade linseed oil	1.12	6.59	1.13	7.38	0.40	2.48
Non-edible linseed oil and its fractions	0.001	0.11	0.0002	0.04	0.0012	0.11
Other linseed oil and its fractions	1.51	11.91	3.00	20.30	2.55	16.67
Oil-cake and meal of linseed expeller variety	0.06	0.09				
Oil-cake and meal of linseed solvent extracted (defatted) variety			0.13	0.22	0.03	0.06
Other solid residues resulting from extraction of linseed oil	6.14	11.60	107.88	180.99	147.08	214.80
Pigments in linseed oil etc.	0.02	2.29	0.07	4.68	0.05	3.86
Grand Total	9.34	34.72	118.12	247.17	155.59	266.95

Oilseeds imports

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Linseed seed	0.75	3.53	0.47	2.15	0.19	1.20
Crude linseed oil and its fractions	0.78	4.38	0.98	7.29	0.25	2.03
Edible grade linseed oil	0.07	0.48	0.54	3.88	0.14	1.31
Non-edible linseed oil and its fractions	0.002	0.16	0.0036	0.10	0.0016	0.08
Other linseed oil and its fractions	2.94	19.76	3.05	21.75	2.97	25.75
Oil-cake and meal of linseed expeller variety	0.02	0.03				
Other solid residues resulting from extraction of linseed oil	94.80	152.79	195.31	369.11	34.63	59.10
Pigments in linseed oil etc.	0.06	3.02	0.09	4.25	0.10	4.69
Grand Total	99.40	184.15	200.45	408.53	38.27	94.16

24.8 India's Imports of Sunflower Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Sunflower seeds	1.98	6.15	2.54	8.78	1.03	4.09
Edible grade sunflower oil	0.08	1.04	0.13	1.32	0.22	1.91
Sunflower oil non edible grade (excluding crude oil)	0.0008	0.18	0.002	0.05	0.003	0.07
Crude sunflower oil	1486.00	8323.05	1727.82	9791.11	2238.65	11749.31
Oil-cake and meal of sunflower (expeller variety)	8.55	15.37	23.83	40.53		
Oil-cake and oil-cake meal of sunflower (solvent extracted (defatted))	35.29	59.95	154.40	262.95	48.53	66.92
Grand Total	1531.91	8405.74	1908.73	10104.73	2288.43	11822.30

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Sunflower seeds	2.28	9.45	2.92	11.63	2.96	13.69
Edible grade sunflower oil	0.23	2.13	0.30	4.15	8.27	85.11
Sunflower oil non edible grade (excluding crude oil)	0.003	0.06	0.001	0.05	0.19	1.88
Crude sunflower oil	2579.74	13655.12	2499.99	13415.49	2175.63	14583.15
Oil-cake and meal of sunflower (expeller variety)	11.20	19.30	17.05	30.94	1.08	2.25
Oil-cake and oil-cake meal of sunflower (solvent extracted (defatted))	29.84	40.80	162.40	286.28	50.03	88.56
Grand Total	2623.29	13726.86	2682.67	13748.54	2238.17	14774.64

24.9 India's Imports of Safflower Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Safflower seeds	0.35	1.71	1.58	6.35	1.87	6.75
Crude safflower oil	6.93	80.82	24.05	200.82	13.45	106.46
Grand Total	7.28	82.53	25.63	207.17	15.32	113.20

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Safflower seeds	2.14	8.31	0.28	0.88	0.10	0.52
Edible grade saffola oil	0.01	0.31	0.0036	0.08	0.01	0.22
Crude safflower oil	0.74	5.08	4.10	33.93	0.0001	0.06
Grand Total	2.89	13.70	4.39	34.89	0.11	0.79

24.10 India's Imports of Castor Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Castor seeds	0.0001	0.0005				
Edible grade (hydrogenated) castor oil (opl wax)					0.0043	0.37
Non-edible grade (dehydrated) Castor oil	0.0022	0.07	0.0004	0.04	0.0004	0.06
Non-edible (hydrogenated) castor oil (opal wax)	0.0005	0.05	0.02	0.13	0.01	0.41
Other castor oil and its fractions	0.03	0.99	0.09	1.33	0.03	1.71
Sulphonated or sulphated or oxidized or castor ,fish ,sperm , meat, foot oil	1.44	16.49	1.37	15.33	1.31	14.83
Grand Total	1.47	17.59	1.48	16.82	1.34	17.38

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Castor seeds					0.00001	0.00013
Castor oil of edible grade			0.005	1.41	0.002	3.12
Edible grade (hydrogenated) castor oil (opl wax)	0.01	0.87	0.03	2.14	0.05	3.91
Non-edible grade (dehydrated) Castor oil	0.001	0.13	0.002	0.16	0.02	0.18
Non-edible (hydrogenated) castor oil (opal wax)	0.03	1.99	0.03	1.72	0.08	0.72
Other castor oil and its fractions	0.18	2.32	0.07	2.59	0.01	2.19
Sulphonated or sulphated or oxidized or castor ,fish ,sperm , meat, foot oil	1.06	13.27	0.90	12.03	0.71	9.29
Grand Total	1.28	18.59	1.04	20.06	0.87	19.42

24.11 India's Imports of Coconut Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Copra	0.29	2.06			4.60	41.83
Crude coconut oil and fractions	2.42	18.90				
Refined coconut oil and fractions	2.76	22.57	0.01	0.37	0.57	6.30
Oil-cake and meal of coconut/copra (solvent extracted (defatted))	0.59	1.19	0.87	1.79	0.02	0.18
Oil-cake and meal of coconut/copra (expeller)	157.14	241.52	164.42	263.51	211.37	303.03
Other residues of coconut or copra	0.27	0.28			0.73	5.30
Grand Total	163.46	286.52	165.30	265.66	217.29	356.63
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Copra	11.79	80.11	13.27	76.37	12.97	95.87
Crude coconut oil and fractions	0.00002	0.005	0.00003	0.005	0.29	2.69
Refined coconut oil and fractions	0.47	3.33	2.45	14.00	0.43	2.96
Oil-cake and meal of coconut/copra (solvent extracted (defatted))	0.44	1.37	4.59	10.40	2.89	16.10
Oil-cake and meal of coconut/copra (expeller)	217.61	352.64	276.93	486.14	259.52	501.51
Other residues of coconut or copra	7.59	16.53	1.17	7.42	0.37	3.24
Grand Total	237.88	453.99	298.42	594.34	276.46	622.37

24.12 India's Imports of Palm oil Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Palm kernels					0.00002	0.001
Palm nuts	0.00001	0.0004				
Palm stearin	6.75	22.37	147.29	692.26	55.32	243.05
Crude palm kernel/babasu oil and its fractions	170.72	1019.78	49.50	480.78	114.58	905.60
Crude palm oil and its fractions	7112.06	27408.74	5355.85	26381.02	6749.60	30851.12
Refined palm kernel/babasu oil and its fractions	4.66	28.83	1.76	20.27	3.06	22.90
Refined bleached deodorized palm oil	1.82	11.93	0.87	5.77	1.76	9.76
Refined bleached deodorized palmolein	2569.11	10375.55	2941.85	14700.09	2694.02	12451.05

Oilseeds imports

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Non-edible (refined) palm kernel/babasu oil and its fractions	0.00003	0.002				
Other refined palm oil	0.66	2.28	0.18	2.01	77.47	344.08
Oil-cake and other residue of palm nut/kernel	7.20	8.06	13.23	14.47	26.00	27.07
Palm stearin	4.89	27.25	15.14	79.25	33.03	146.93
Palmarosa oil			0.00002	0.006	0.0003	0.10
Grand Total	9877.89	38904.79	8525.66	42375.93	9754.85	45001.66

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Palm nuts			0.00002	0.00034	0.002	1.83
Palm stearin	68.63	289.66				
Crude palm kernel/babasu oil and its fractions	126.07	775.18	141.47	668.65	110.09	758.72
Crude palm oil and its fractions	6415.42	25751.57	6176.30	25633.14	7391.94	41992.58
Refined palm kernel/babasu oil and its fractions	4.00	27.90	4.55	25.05	8.31	59.67
Refined bleached deodorized palm oil	13.18	59.71	3.93	16.69	4.97	29.22
Refined bleached deodorized palm stearin			87.11	349.28	31.84	178.72
Refined bleached deodorized palmolein	2431.09	10467.75	2330.92	10038.32	94.98	543.65
Edible (refined) palm kernel/babasu oil and its fractions	0.00002	0.0011	0.0002	0.01	0.0003	0.02
Other refined palm oil	77.17	353.97	80.15	335.46	0.30	2.98
Oil-cake and other residue of palm nut/kernel	19.16	22.43	38.59	41.41	14.32	21.31
Palm stearin	64.26	273.02				
Palmarosa oil	0.00	0.90	0.00035	0.14	0.0001	0.08
Grand Total	9218.98	38022.06	8863.03	37108.15	7656.76	43588.78

24.13 India's Imports of Cotton Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Cotton seeds			2.11	5.11	13.89	28.12
Edible grade cotton seed oil	0.01	0.71	0.002	0.11	0.01	0.34
Non- edible cotton seed oil and its fractions	0.01	3.23	0.01	1.77	0.0042	1.24
Other cotton seed oil and its fractions	0.0002	0.05	0.0002	0.05	0.0014	0.15
Oil-cake and meal decorticated expeller variety of cotton seeds			2.00	3.52		
Oil-cake and meal decorticated, solvent extracted (defatted) variety of cotton seeds			0.07	0.15	1.50	1.94
Other residues of cotton seed	0.00001	0.0004			2.13	2.82
Grand Total	0.02	4.00	4.18	10.71	17.53	34.61

Oilseeds imports

Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Cotton seeds	7.87	15.12	7.42	15.52	0.31	0.54
Edible grade cotton seed oil	0.01	0.25	2.88	20.32	1.09	8.62
Crude cotton seed oil	0.00003	0.002	0.00001	0.004	0.001	0.02
Non- edible cotton seed oil and its fractions	3.02	19.41	0.01	3.75	0.01	3.36
Other cotton seed oil and its fractions	0.0009	0.10	0.0018	0.14	0.01	0.35
Oil-cake and meal decorticated expeller variety of cotton seeds			2.48	5.34		
Oil-cake and meal decorticated, solvent extracted (defatted) variety of cotton seeds	21.46	31.15	19.12	35.25	25.66	50.31
Oil-cake and meal undecorticated expeller variety of cotton seeds			4.47	5.69	11.41	16.16
Oil-cake and meal undecorticated, solvent extracted (defatted) variety of cotton seeds			0.05	0.12	0.40	0.78
Other residues of cotton seed			18.78	24.56	0.83	1.12
Grand Total	32.36	66.03	55.21	110.69	39.72	81.27

24.14 India's Imports of Other Commodities 2015-16 to 2020-2021 (April-March)

(Quantity in '000 tonnes; Value in 'Crores)

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Poppy seeds	10.22	186.55	18.07	295.99	8.59	140.96
Jajoba seed					0.01	0.07
Mango kernel					0.0002	0.02
Melon seeds	37.40	264.53	22.89	160.32	39.66	272.28
Other oil seeds and oleaginous fruits	39.28	127.48	29.09	88.78	22.43	59.67
Other flours and meals			0.0028	0.02	0.0025	0.02
Crude olive oil			0.50	3.30	0.81	8.67
Olive oil virgin	1.62	47.47	1.81	51.65	1.65	55.59
Other olive oil and its fractions (excluding virgin)	0.82	22.24	0.95	21.70	0.28	7.64
Edible grade olive oil and its fractions (excluding virgin)	8.67	208.66	9.98	237.08	8.91	287.64
Non-edible grade olive oil and its fractions (excluding virgin)	0.15	2.90	0.07	1.53	0.08	2.07
Crude maize (corn) oil and its fractions	0.16	0.56				
Edible grade maize (corn) oil	0.001	0.01			0.01	0.17
Non-edible maize (corn) oil	0.003	0.10	0.01	0.22	0.02	0.52
Margarine	0.0001	0.0046	0.0001	0.0030	0.0008	0.09

Oilseeds imports

Oilseed Products	2015-16		2016-17		2017-18	
	Quantity	Value	Quantity	Value	Quantity	Value
Other (sunflower/safflower oil)	0.05	1.48	0.04	1.05	0.03	0.68
Other fixed vegetable oils and its fractions	6.03	40.30	18.74	109.09	1.22	9.80
Other fixed vegetable fats and oil and their fractions	3.93	43.22	11.34	134.66	7.20	88.27
Other vegetable oils and fats	0.81	7.67	1.30	7.45	9.76	51.22
Edible vegetable waxes	0.01	0.44	0.03	0.98	0.02	0.98
Other vegetable waxes	0.34	15.37	0.31	14.97	0.75	20.02
Oil-cake and meal, expeller variety (mowra, mango kernel, need seed, sal de-de-oiled and other seeds)	0.06	0.09	0.003	0.04	0.07	0.17
Grand Total	109.55	969.09	115.13	1128.82	101.49	1006.54
Oilseed Products	2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value
Poppy seeds	18.18	313.03	19.94	439.52	0.88	13.11
Neem seed	0.01	0.07	0.05	0.43	0.001	0.01
Kokum	0.0001	0.002	0.29	2.66	1.14	7.85
Melon seeds	58.87	438.17	46.80	347.26	59.28	421.90
Other oil seeds and oleaginous fruits	52.53	180.97	39.48	152.24	42.75	157.07
Other flours and meals	0.004	0.04	0.002	0.04	0.002	0.01
Crude olive oil	0.56	4.81	1.07	7.18	1.53	11.53
Olive oil virgin	1.60	59.29	1.56	43.35	2.10	58.74
Other olive oil and its fractions (excluding virgin)	0.15	3.83	0.42	8.96	0.06	1.61
Edible grade olive oil and its fractions (excluding virgin)	9.45	330.47	7.74	169.88	9.23	212.65
Non-edible grade olive oil and its fractions (excluding virgin)	0.46	10.36	1.01	12.89	0.68	8.31
Crude maize (corn) oil and its fractions	0.0002	0.02	0.13	0.84	0.000004	0.0009
Edible grade maize (corn) oil	0.01	0.30	0.02	0.51	0.01	0.14
Non-edible maize (corn) oil	0.003	0.13	0.003	0.21	0.0034	0.23
Margarine	0.10	0.91	0.06	0.63	0.0001	0.02
Sal fat	0.04	1.02				
Other (sunflower/safflower oil)	0.02	0.48	0.04	0.90	0.01	0.96
Other fixed vegetable oils and its fractions	12.16	94.70	74.95	486.38	84.38	658.50
Other fixed vegetable fats and oil and their fractions	17.33	160.36	42.41	298.60	55.23	510.70
Other vegetable oils and fats	16.99	87.93	5.97	28.46	3.87	26.22
Edible vegetable waxes	0.01	0.59	0.0004	0.04	0.000001	0.00068
Other vegetable waxes	0.90	19.48	0.70	25.10	0.64	20.55
Oil-cake and meal, expeller variety (mowra, mango kernel, need seed, sal de-de-oiled and other seeds)			0.26	0.48	0.02	0.06
Grand Total	189.40	1706.96	242.90	2026.57	261.82	2110.19

25. Consumption and value of output of oilseeds and oils

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Consumption and value of output of oilseeds and oils

25.1 Private Final Consumption Expenditure on Oils and Fats

(Rs. Crore)

Year		Oils and Fats	Total Food Items	Private Final Consumption Expenditure in Domestic Market
2015-16	At 2011-12 Prices	83742 (4.77)	1757094 (27.35)	6423875 (100)
	At Current Prices	[106065 (4.45)]	[2382981 (29.16)]	[8172982 (100)]
2016-17	At 2011-12 Prices	106398 (5.46)	1949698 (28.06)	6948491 (100)
	At Current Prices	[139866 (5.06)]	[2762665 (30.14)]	[9165326 (100)]
2017-18	At 2011-12 Prices	96248 (4.90)	1963049 (26.28)	7470815 (100)
	At Current Prices	[128053 (4.53)]	[2828150 (27.88)]	[10144392 (100)]

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

Note: Figures in parentheses represent to the percentages to the total Private Final Consumption Expenditure

25.2 Domestic Production, Import and Availability of Oilseeds / Edible Oils in India

Year	Area of oilseeds (million hectares)	Production of oilseeds (million tonnes)	Production of edible oils (million tonnes)	Imports of edible oils (million tonnes)	Total Availability of Edible Oils	Import as Percentage of Total Availability
2015-16	26	25	9	15	24	62
2016-17	26	31	11	14	25	57
2017-18	25	32	11	15	26	58
2018-19	26	32	10	15	25	59
2019-20	27	33	11	13	24	56
2020-21#		37	11	7		

Source: Ministry of Agriculture; Directorate of Sugar and Vegetable Oils (Nov-Oct).

Indian Vanaspati Producer's Association. (16687),

Department of food Distributing of India. (ON925), Ministry of Consumer Affairs, Food and Public Distribution, Govt. of India. (ON1644) & Past Issues

Based on 3rd Advance Estimates (declared by Ministry of Agriculture on 25.05.2021).

25.3 Crop-wise Value of Output of Total Oilseeds in India (At constant 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Soybean	19399	29894	24873	30169
	(31305)	(40649)	(34019)	(43787)
Rapeseed & Mustard	21800	25032	26948	29681
	(26056)	(28410)	(33147)	(36154)
Groundnut	23424	25898	32540	23150
	(30182)	(36188)	(43383)	(31121)
Sesamum	3607	3100	3084	2816
	(5181)	(4461)	(4720)	(5169)
Castor	8640	6815	7909	5845

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
	(5835)	(5328)	(7179)	(5773)
Linseed	355	529	480	274
	(490)	(811)	(758)	(427)
Sunflower	812	682	603	546
	988)	(795)	(668)	(718)
Niger Seed	208	236	198	135
	(317)	(392)	(309)	(215)
Safflower	142	236	149	67
	(141)	(253)	(171)	(86)
Taramira	22	285	48	103
	(35)	(435)	(77)	(151)
Coconut	12756	11381	10890	12250
	(20287)	(17055)	(22571)	(25987)
Other Oilseeds	1810	1997	1099	2113
	(2594)	(2742)	(1483)	(3143)
Total Oilseeds	92974	106085	108822	107150
	(123411)	(137519)	(148484)	(152730)

Source: <http://www.mospi.gov.in/> : National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.4 State-wise Value of Output of Soybean (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	3.23	5.50	1.7	3.28
	(5.11)	(8.87)	(2.48)	(5.53)
Arunachal Pradesh	5.67	8.87	8.94	8.95
	(14.07)	(23.31)	(24.39)	(24.59)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chhattisgarh	152.57	160.53	101.95	144.42
	(214.04)	(236.36)	(148.98)	(243.56)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	118.27	188.36	252.94	379.1
	(189.08)	(247.14)	(361.31)	(625.74)
Haryana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	2.81	1.79	2.8	2.8
	(5.74)	(3.89)	(5.84)	(7.06)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	0.56	0.72	1.84	5.47
	(0.81)	(1.00)	(2.55)	(8.74)
Karnataka	324.03	548.54	585.34	595.67
	(488.43)	(655.09)	(765.58)	(864.46)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	10889.69	14752.9	11806.31	14801.25
	(18478.1)9	(20259.5)	(17288.99)	(21582)
Maharashtra	4816.74	10719.07	8891.83	10776.07
	(7435.89)	(14748.86)	(11208.86)	(15482.4)
Manipur	15.18	15.54	16.31	15.63
	(32.02)	(34.31)	(36.28)	(33.57)
Meghalaya	9.37	9.53	9.6	9.67
	(12.08)	(13.36)	(14.92)	(15.99)
Mizoram	6.18	6.15	5.89	6.72
	(10.44)	(11.07)	(11.05)	(12.68)
Nagaland	52.99	53.4	53.59	53.79
	(80.11)	(84.96)	(98.04)	(104.41)
Odisha	0.66	0.66	0.00 (0.00)	0.00 (0.00)
	(1.81)	(1.81)	0.00 (0.00)	0.00 (0.00)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	2433.07	2757.2	2606.6	2846.87
	(3491.85)	(3389.77)	(3292.57)	(3882.62)
Sikkim	10.34	10.02	9.71	9.37
	(15.22)	(16.47)	(17.56)	(18.77)
Tamil Nadu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Telangana	478.03	611.58	468.22	444.67
	(703.91)	(854.11)	(662.07)	(764.15)
Tripura	0.00 (0.00)	0.24 (1.58)	0.33 (2.18)	0.07 (0.53)
Uttar Pradesh	39.68	14.86	23.09	43.99
	(61.76)	(19.38)	(36.65)	(77.22)
Uttarakhand	38.88	28.02	25.65	20.7
	(62.91)	(39.05)	(37.02)	(32.17)
West Bengal	0.55	0.57	0.77	0.43
	(1.11)	(1.10)	(1.35)	(0.87)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	19398.5	29894.04	24873.42	30168.89
	(31304.57)	(40649.33)	(34018.67)	(43787.04)

Source: <http://www.mospi.gov.in/> : National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

Consumption and value of output of oilseeds and oils

25.5 State-wise Value of Output of Rapeseed & Mustard (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	2.31 (3.92)	6.25 (8.33)	4.1 (6.4)	4.13 (6.23)
Arunachal Pradesh	67.01 (175.14)	60.00 (171.08)	60.44 (201.05)	60.48 (202.63)
Assam	495.91 (564.75)	470.39 (546.6)	461.09 (537.61)	456.7 (539.92)
Bihar	286.59 (479.75)	296.59 (508.37)	299.1 (523.33)	315.63 (585.61)
Chhattisgarh	57.31 (86.07)	50.89 (105.36)	46.53 (60.42)	45.24 (58.25)
Goa	0.00 (0.00)	0.00 (0.00)	0.00(0.00)	0.00 (0.00)
Gujarat	1009.07 (1172.32)	1134.37 (1232.17)	1317.62 (1355.57)	1149.29 (1259.84)
Haryana	2758.98 (2919.44)	3238.8 (3334.97)	3797.04 (4070.68)	4296.92 (4927.08)
Himachal Pradesh	24.08 (28.96)	24.07 (29.73)	24.63 (30.43)	25.45 (33.58)
Jammu & Kashmir	92.64 (116.1)	74.72 (78.55)	112.24 (159.23)	162.09 (245.63)
Jharkhand	484.46 (707.15)	710.48 (1061.93)	778.86 (1177.78)	587.83 (890.56)
Karnataka	1.10 (1.7)	3.09 (4.45)	1.24 (1.41)	2.21 (1.98)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	1581.2 (2502.49)	2184.25 (3413.2)	2317.2 (4475.45)	2469.14 (4892.15)
Maharashtra	8.77 (12.44)	9.94 (12.16)	6.43 (7.82)	6.2 (7.77)
Manipur	53.45 (73.56)	54.28 (104.58)	54.6 (105.20)	54.08 (104.18)
Meghalaya	15.10 (18.82)	14.68 (19.98)	14.72 (20.32)	14.76 (21.07)
Mizoram	1.39 (2.45)	0.65 (1.23)	0.84 (1.81)	0.82 (1.81)
Nagaland	66.82 (90.20)	66.62 (93.27)	66.67 (99.73)	66.72 (101.47)
Odisha	4.99 (6.37)	11.14 (14.88)	9.37 (13.03)	5.5 (8.82)
Punjab	118.23 (140.03)	126.72 (161.28)	129.23 (169.05)	131.47 (195.22)
Rajasthan	11157.08 (12472.64)	12138.19 (12192.3)	12154.48 (12750.48)	13909.92 (14450.16)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Sikkim	7.87 (11.58)	7.84 (12.9)	7.09 (12.81)	6.86 (13.73)
Tamil Nadu	0.14 (0.22)	0.07 (0.11)	0.12 (0.17)	0.12 (0.18)
Telangana	4.57 (8.82)	13.15 (14.26)	13.11 (14.52)	21.28 (23.56)
Tripura	24.39 (37.49)	29.21 (57.65)	30.54 (63.24)	30.32 (66.06)
Uttar Pradesh	2021.25 (2279.63)	2876.01 (3078.11)	3168.2 (4183.99)	3743.17 (4116.59)
Uttarakhand	44.78 (59.95)	31.74 (41.64)	36.66 (46.23)	46.06 (64.15)
West Bengal	1396.62 (2069.21)	1384.51 (2107.61)	2022.45 (3042.3)	2055.35 (3318.27)
Andaman & Nicobar Islands	0.00 (0.01)	0.00 (0.01)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	13.46 (15.32)	13.13 (15.84)	13.13 (16.66)	13.12 (17.19)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	21799.59 (26056.5)	25031.60 (28409.64)	26947.75 (33146.72)	29680.88 (36153.7)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.6 State-wise Value of Output of Groundnut (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	3045 (3753)	2293 (2922)	3988 (4239)	1757 (1982)
Arunachal Pradesh	1.93 (3.92)	2.57 (5.38)	2.66 (6.03)	2.67 (6.09)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	1.34 (1.77)	2.66 (4.2)	1.55 (2.17)	2.33 (3.56)
Chhattisgarh	89.18 (110.54)	123.15 (228.52)	89 (122)	107 (160)
Goa	16.14 (20.18)	15.88 (19.86)	13.88 (17.35)	3.98 (5.47)
Gujarat	8564 (10313)	11559 (15633)	14414 (19404)	8065 (10484)
Haryana	13.87 (18.54)	14.48 (20.9)	10.87 (16.05)	10.04 (14.82)
Himachal Pradesh	0.24 (0.38)	0.37 (0.64)	0.27 (0.41)	0.31 (0.35)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Jammu & Kashmir	0.00 (0.00)	0.23 (0.68)	0.00 (0.00)	0.00 (0.00)
Jharkhand	52.35 (71.93)	71.47 (106.11)	90.25 (145.32)	78.11 (121.47)
Karnataka	1302 (1798)	1381 (1807)	1821 (2069)	1288 (1613)
Kerala	1.60 (2.04)	1.30 (1.80)	0.99 (1.26)	0.62 (0.79)
Madhya Pradesh	806 (1339)	919 (2024)	848 (1805)	1002 (2145)
Maharashtra	1050 (1563)	1321 (2114)	1082 (1481)	750 (1026)
Manipur	4.39 (13.20)	4.43 (14.40)	4.64 (13.38)	4.43 (12.32)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	2.30 (3.13)	2.40 (3.54)	2.52 (4)	2.63 (4.47)
Odisha	148 (217)	145 (223)	99 (156)	94 (160)
Punjab	7.55 (7.66)	9.14 (9.48)	9.3 (10.41)	10.23 (12.59)
Rajasthan	3268 (4154)	3554 (4429)	3924 (4348)	4308 (5214)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	3321 (4677)	2192 (3727)	3750 (6630)	3392 (5320)
Telangana	816 (914)	1356 (1580)	1476 (1748)	1244 (1516)
Tripura	4.70 (14.31)	7.92 (24.61)	8.16 (27.29)	9.17 (33.46)
Uttar Pradesh	220 (304)	288 (413)	302 (402)	340 (480)
Uttarakhand	6.95 (8.93)	4.63 (5.68)	6.38 (6.98)	4.81 (5.46)
West Bengal	679 (868)	627 (867)	590 (723)	672 (795)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	3.30 (4.67)	2.77 (3.56)	3.03 (4.53)	3.39 (5.05)
All India	23424 (30182)	25898 (36188)	32540 (43383)	23150 (31121)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.7 State-wise Value of Output of Sesame (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

Consumption and value of output of oilseeds and oils

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	58.67 (103.84)	67.49 (93.89)	45.14 (63.84)	53.18 (88.05)
Arunachal Pradesh	3.30 (4.97)	7.74 (12.03)	7.89 (12.8)	7.9 (12.91)
Assam	47.78 (49.30)	50.12 (52.05)	49.83 (52.1)	49.89 (52.38)
Bihar	18.24 (31.76)	13.56 (19.62)	10.52 (15.6)	10.79 (19.55)
Chhattisgarh	40.08 (50.49)	48.71 (54.81)	51.63 (57.17)	44.56 (44.5)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	350.85 (524.72)	427.60 (536.06)	398.51 (531.05)	266.81 (553.86)
Haryana	8.47 (10.23)	4.17 (5.38)	5.21 (6.3)	6.01 (7.27)
Himachal Pradesh	7.34 (11.92)	6.63 (10.79)	0.47 (0.69)	1.2 (1.88)
Jammu & Kashmir	2.68 (1.87)	4.37 (3.26)	3.08 (2.36)	3.17 (3.07)
Jharkhand	10.72 (11.10)	18.22 (20.14)	39.26 (53.74)	30.04 (41.13)
Karnataka	92.17 (125.66)	84.49 (123.36)	91.31 (132.19)	60.65 (139.9)
Kerala	0.19 (0.19)	0.24 (0.58)	0.32 (0.44)	0.63 (1.54)
Madhya Pradesh	620.97 (1037.07)	570.56 (1262.75)	646.63 (1456.11)	479.38 (1154.33)
Maharashtra	22.05 (29.73)	43.00 (44.65)	37.23 (40.58)	36.09 (45.91)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	7.67 (9.30)	7.76 (10.05)	7.82 (11.04)	7.87 (11.68)
Mizoram	2.15 (3.59)	1.89 (3.86)	1.59 (3.31)	1.96 (4.16)
Nagaland	5.40 (7.37)	5.50 (8.01)	5.57 (8.78)	5.65 (9.72)
Odisha	13.79 (20.91)	16.33 (25.81)	13.77 (23.02)	11.65 (28.11)
Punjab	9.30 (919.51)	6.60 (14.78)	5.57 (4.83)	4.75 (4.95)
Rajasthan	583.65 (673.08)	469.40 (558.19)	343.01 (512.26)	426.75 (778.82)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	121.61 (219.94)	44.90 (81.10)	95.58 (187.19)	101.26 (243.75)
Telangana	14.05 (20.17)	70.30 (83.10)	42.14 (69.24)	58.68 (124.98)
Tripura	7.35 (13.66)	10.65 (21.13)	13.5 (27.6)	14.09 (37.05)
Uttar Pradesh	863.75 (1355.67)	412.22 (533.51)	426.72 (536.76)	384.53 (591.09)
Uttarakhand	2.72 (3.53)	5.67 (7.35)	3.32 (4.36)	3.38 (4.49)
West Bengal	691.37 (839.89)	701.51 (874.46)	738.22 (905.96)	744.74 (1163.41)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Andaman & Nicobar Islands	0.01 (0.01)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00(0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.35 (1.05)	0.29 (0.55)	0.41 (0.67)	0.42 (0.84)
All India	3606.7 (5180.54)	3099.92 (4461.25)	3084 (4719.98)	2816 (5169.37)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.8 State-wise Value of Output of Castor (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	87.45 (95.52)	46.94 (49.44)	63.61 (74.81)	46.6 (59.09)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	3.01 (3.05)	2.56 (2.60)	2.62 (2.73)	2.44 (2.55)
Bihar	0.11 (0.14)	0.20 (0.24)	0.05 (0.07)	0.22 (0.34)
Chhattisgarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	7669.06 (4689.18)	6084.23 (4387.48)	7237 (6329.73)	5124 (4756.37)
Haryana	0.00 (0.00)	3.19 (3.88)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	3.49 (3.82)	0.18 (0.19)	0.15 (0.16)	0.07 (0.08)
Karnataka	15.20 (16.69)	15.20 (15.93)	14.41 (18.88)	5.24 (7.25)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	3.25 (3.29)	9.74 (19.95)	8.12 (20.16)	0.61 (1.68)
Maharashtra	14.90 (15.07)	6.26 (6.19)	4.22 (4.43)	10.84 (12.4)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.09 (0.13)	0.01 (0.01)	0.09 (0.24)	0.09 (0.3)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	0.42 (0.63)	0.44 (0.70)	0.46 (0.81)	0.46 (0.86)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Odisha	17.64 (23.08)	15.02 (21.45)	13.13 (19.35)	12.27 (18.94)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	762.94 (922.26)	539.1 (746.16)	474 (623.65)	587 (832.17)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	5.38 (7.51)	4.63 (6.09)	4.3 (6.07)	4.68 (6.77)
Telangana	56.68 (54.72)	87.46 (78.21)	86.66 (77.49)	50.34 (74.08)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttarakhand	0.13 (0.11)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
West Bengal	0.18 (0.16)	0.12 (0.1)	0.18 (0.18)	0.03 (0.04)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	8639.93 (5835.38)	6815.28 (5328.05)	7909 (7178.77)	5845 (5772.91)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.9 State-wise Value of Output of Linseed (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	8.11 (9.38)	7.35 (9.74)	7.45 (10.07)	7.04 (9.63)
Bihar	44.36 (51.14)	36.29 (43.54)	35.43 (39.44)	28.17 (29.49)
Chhattisgarh	25.44 (31.32)	33.17 (49.71)	20.59 (13.27)	14.87 (20.91)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Haryana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	1.52 (2.09)	1.79 (2.27)	1.52 (1.79)	1.54 (1.75)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Jammu & Kashmir	0.13 (0.13)	0.14 (0.19)	0.09 (0.12)	0.53 (0.7)
Jharkhand	33.68 (46.32)	57.5 (100.03)	72.42 (127.63)	47.64 (84.16)
Karnataka	4.5 (5.95)	3.08 (5.15)	2.23 (3.76)	1.27 (1.46)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	151.88 (233.48)	168.45 (287.19)	237.48 (411.77)	74.71 (129.68)
Maharashtra	12.37 (16.22)	10.51 (17.09)	9.96 (14.35)	8.22 (10.58)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.180.18)	0.170.21)	0.18 (0.2)	0.19 (0.21)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	11.23 (16.01)	11.3 (17.05)	11.4 (18.66)	11.43 (19.52)
Odisha	27.66 (28.14)	21.79 (22.17)	16.66 (16.95)	15.64 (15.91)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	5.97 (7.51)	124.35 (165.89)	16.09 (17.87)	10.94 (13.45)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Telangana	0.01 (0.01)	0.01 (0.01)	0.00 (0.00)	0.00 (0.00)
Tripura	0.00 (0.00)	0.09 0.63	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	20.71 (33.23)	46.09 (79.32)	41.46 (71.91)	46.8 (81.5)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00(0.00)	0.00(0.00)
West Bengal	7.01 (8.75)	7.15 (10.94)	7.3 (9.8)	5.14 (7.4)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	354.75 (489.86)	529.22 (811.12)	480 (758.09)	274 (426.6)

Consumption and value of output of oilseeds and oils

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.10 State-wise Value of Output of Sunflower (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	67.73 (79.28)	62.17 (71.68)	33.55 (36.9)	26.25 (29.55)
Arunachal Pradesh	0.40 (0.84)	1.33 (2.86)	1.43 (3.26)	1.44 (3.3)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	29.96 (35.5)	27.15 (32.18)	24.74 (26.24)	19.33 (23.15)
Chhattisgarh	0.45 (0.61)	1.14 (1.58)	0.00 (0.00)	0.09 (0.1)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Haryana	51.81 (70.32)	34.72 (45.89)	26.4 (38.66)	50.67 (74.2)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	1.40 (1.57)	2.84 (3.10)	2.22 (2.43)	0.96 (1.19)
Karnataka	448.34 (516)	289.93 (308.6)	316 (315.28)	312 (386.36)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	1.77 (1.95)	5.32 (5.70)	5.32 (5.1)	0.00 (0.00)
Maharashtra	28.48 (35.31)	99.95 (103.67)	57.6 (55.43)	20.38 (22.5)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	4.67 (6.25)	4.81 (6.70)	4.93 (7.36)	0.00 (0.00)
Odisha	51.01 (82.83)	57.43 (93.26)	41.4 (66.76)	54.45 (89.51)
Punjab	26.65 (33.99)	22.25 (36.96)	24.3 (41.95)	22.4 (39.63)
Rajasthan	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.0 (0.00)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	19.36 (20.54)	6.43 (6.43)	13.19 (13.19)	7.67 (8.66)
Telangana	36.28 (49.32)	26.09 (27.99)	23.2 (24.59)	10.67 (15.81)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	9.81 (10.41)	9.81 (10.41)	7.07 (7.5)	3.35 (3.55)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
West Bengal	34.23 (43.72)	30.38 (37.78)	21.14 (23.53)	16.21 (20.37)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	812.35 (988.43)	681.76 (794.78)	603 (668.19)	546 (717.88)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.11 State-wise Value of Output of Niger (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	5.86 (12.18)	5.07 (10.59)	5.64 (11.07)	4.34 (8.58)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	13.41 (913.69)	11.26 (11.96)	11.43 (12.32)	10.6 (11.48)
Bihar	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chhattisgarh	34.28 (45.92)	42.67 (62.78)	36.61 (42.76)	37.42 (49.54)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Haryana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	5.15 (11.24)	20.63 (41.91)	7.71 (15.7)	7.15 (14.58)
Karnataka	8.16 (14.00)	4.08 (7.00)	3.56 (7.19)	0.81 (1.18)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	61.56 (90.78)	72.27 (125.71)	56.21 (96.3)	14.45 (27.09)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Maharashtra	5.81 (13.79)	6.68 (11.06)	6 (8.8)	3.87 (4.66)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Odisha	63.25 (86.89)	63.55 (95.56)	61.1 (88.75)	54.74 (94.05)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Telangana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
West Bengal	10.02 (28.2)	9.73 (25.51)	10.18 (25.89)	1.92 (3.51)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.01 (0.06)	0 (0.01)	0.04 (0.13)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	207.51	235.96	198	135
	(316.69)	(392.16)	(308.79)	(214.82)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

Consumption and value of output of oilseeds and oils

25.12 State-wise Value of Output of Safflower (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	0.57 (0.62)	0.22 (0.19)	0.00 (0.00)	0.00 (0.00)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	0.14 (0.17)	0.14 (0.18)	0.13 (0.2)	0.12 (0.19)
Chhattisgarh	0.56 (1.02)	0.37 (0.73)	0.19 (0.29)	0.2 (0.41)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Haryana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	0.00 (0.00)	0.46 (0.50)	1.82 (1.97)	0.74 (0.86)
Karnataka	88.41 (78.00)	64.03 (60.45)	81	29
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	8.86 (10.26)	26.58 (32.12)	1.77 (2.54)	0
Maharashtra	33.46 (38.9)	134.88 (147.25)	55.01 (65.71)	30.7 (38.35)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Odisha	0.76 (1.01)	0.69 (0.93)	0.82 (1.1)	0.99 (1.32)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Telangana	7.10 (7.50)	7.97 (8.54)	6.24 (6.94)	5 (6.24)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
West Bengal	2.47 (3.28)	1.09 (1.62)	2.47 (4.38)	0.01 (0.02)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	142.33 (140.76)	236.43 (252.51)	149.41 (170.64)	66.76 (86.02)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.13 State-wise Value of Output of Taramira (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chhattisgarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Goa	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gujarat	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Haryana	3.51 (5.03)	3.51 (5.31)	3.51 (5.55)	3 (4.74)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Karnataka	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Kerala	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Madhya Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Maharashtra	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Mizoram	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Nagaland	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Odisha	0.66 (1.81)	0.66 (1.81)	0.00 (0.00)	0.00 (0.00)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	18.84 (30.14)	281.84 (429.36)	44.51 (71.8)	100.01 (146.35)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Telangana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
West Bengal	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.05)	0.03 (0.06)	0.03 (0.06)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	22.38 (35.20)	285.38 (434.56)	48.05 (77.41)	103.04 (151.14)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.14 State-wise Value of Output of Coconut (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	760.48 (1531.74)	753.82 (1178.69)	744 (1453.16)	837 (1814.15)
Arunachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Assam	185.99 (222.68)	206.89 (263.47)	156 (196.52)	227 (291.24)
Bihar	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chhattisgarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Goa	64.80 (119.91)	66.21 (125.55)	65.95 (190.86)	66.51 (199.13)
Gujarat	153.09	153.09	176	176

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
	(160.21)	(163.05)	(230.9)	(233.93)
Haryana	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jammu & Kashmir	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Jharkhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Karnataka	2211.08 (3398.51)	2048.27 (3017.05)	2115 (4759.64)	2590 (5370.48)
Kerala	4560.38 (6506.82)	4180.68 (5140.61)	4061 (8543.44)	4115 (8812.23)
Madhya Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Maharashtra	255.59 (497.71)	187.77 (391.82)	120.79 (264.29)	197.29 (541.95)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	0.10 (0.16)	0.10 (0.10)	0.09 (0.09)	0.09 (0.09)
Nagaland	29.75 (36.11)	29.75 (37.93)	23.52 (32.56)	23.54 (35.31)
Odisha	245.35 (353.56)	256.39 (406.96)	256.44 (457.59)	214.76 (502.8)
Punjab	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Rajasthan	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	3706.93 (6574.93)	2927.83 (5463.37)	2597 (5448.45)	3242 (7168.21)
Telangana	1.12 (1.55)	1.12 (1.71)	3.09 (4.84)	2.51 (2.35)
Tripura	18.28 (40.67)	11.85 (30.80)	11.28 (33.85)	11.4 (39.99)
Uttar Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
West Bengal	409.73 (661.84)	411.65 (672.45)	415 (697.15)	422 (737.56)
Andaman & Nicobar Islands	78.96 (131.60)	75.75 (126.25)	75 (201.83)	58 (181.88)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	54.36 (17.85)	54.36 (14.97)	54.36 (24.21)	54.36 (28.31)
Puducherry	20.04 (31.04)	15.22 (20.42)	14.63 (31.34)	12.55 (26.88)
All India	12756.05 (20286.89)	11380.76 (17055.22)	10890 (22570.73)	12250 (25986.5)

Consumption and value of output of oilseeds and oils

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.15 State-wise Value of Output of Other Oilseeds (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	1650 (2432)	1703 (2400)	81718 (1162)	177133 (2685)
Arunachal Pradesh	0.65 (1.08)	2.03 (3.57)	214 (4.22)	214 (4.22)
Assam	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Bihar	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chhattisgarh	0.20 (0.26)	0.22 (0.29)	21 (0.21)	285 (3.38)
Goa	2.77 (1.85)	2.77 (1.88)	279 (1.52)	279 (1.52)
Gujarat	50 (32)	40 (30)	3667 (33)	11537 (114)
Haryana	2.65 (3.20)	2.81 (3.53)	934 (11.3)	511 (6.18)
Himachal Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	2581 (34.17)
Jammu & Kashmir	0.00 (0.00)	0.66 (0.61)	1 (0.01)	3 (0.04)
Jharkhand	0.99 (1.36)	1.22 (2.05)	114 (1.87)	0.00 (0.00)
Karnataka	0.09 (0.10)	0.69 (0.86)	80 (1.03)	73 (1.42)
Kerala	0.68 (0.68)	2.61 (6.36)	200 (2.76)	284 (6.9)
Madhya Pradesh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Maharashtra	5.23 (6.71)	0.33 (12.56)	695 (8.28)	469 (5.85)
Manipur	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Meghalaya	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Mizoram	1.40 (2.05)	2.259 (2.64)	921 (10.78)	1170 (13.69)
Nagaland	3.54 (4.99)	3.64 (5.44)	371 (6.02)	378 (6.48)
Odisha	20.95 (20.95)	92.34 (126.13)	2571 (35.12)	2563 (35.01)
Punjab	0.05 (0.10)	0.00 (0.00)	514 (4.46)	408 (4.25)
Rajasthan	4.39 (5.20)	4.64 (6.02)	1262 (17.47)	482 (7.65)
Sikkim	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Tamil Nadu	12.01 (21.5)	6.81 (11.98)	919 (17.78)	896 (21.19)

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Telangana	49.96 (51.45)	128.17 (136.46)	15027 (159.99)	11694 (185.87)
Tripura	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Uttar Pradesh	3.87 (6.08)	2.81 (3.76)	380 (4.94)	382 (5.95)
Uttarakhand	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
West Bengal	1.37 (1.69)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Andaman & Nicobar Islands	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Chandigarh	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Dadra & Nagar Haveli	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Daman & Diu	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Delhi	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Lakshadweep	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Puducherry	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
All India	1810 (2594)	1997 (2742)	109888 (1483)	211342 (3143)

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.16 State-wise Value of Output of Total Oilseeds (At 2011-12 Prices)

(Values in Parentheses represent to the Current Prices)

(Rs. Crore)

State	2015-16	2016-17	2017-18	2018-19
Andhra Pradesh	5681	4943	570332	450326
Arunachal Pradesh	79	83	8350	8358
Assam	754	749	68878	75338
Bihar	381	377	37151	37659
Chhattisgarh	400	461	34633	39660
Goa	84	85	8262	7327
Gujarat	17914	19587	2383306	1527574
Haryana	2839	3302	385239	437176
Himachal Pradesh	36	35	2968	5712
Jammu & Kashmir	95	80	11543	16582
Jharkhand	593	884	99567	75802
Karnataka	4495	4442	503235	488675
Kerala	4563	4185	406440	411876
Madhya Pradesh	14125	18709	1592744	1884120
Maharashtra	6253	12540	1027849	1184431
Manipur	73	74	7556	7413
Meghalaya	32	32	3242	3256
Mizoram	11	11	1763	2129

Consumption and value of output of oilseeds and oils

State	2015-16	2016-17	2017-18	2018-19
Nagaland	177	178	17237	16799
Odisha	594	681	53768	48917
Punjab	162	165	17355	17293
Rajasthan	18234	19869	1957621	2219390
Sikkim	18	18	1679	1623
Tamil Nadu	7187	5182	646902	675635
Telangana	1464	2302	226934	195417
Tripura	55	60	6389	6509
Uttar Pradesh	3179	3649	397187	456524
Uttarakhand	93	70	7201	7495
West Bengal	3232	3174	380818	391775
A & N Islands	79	76	7487	5772
Chandigarh	0.03	0.03	3	3
Dadra & Nagar Haveli	0.0	0.02	1	6
Daman & Diu	0.0	0.0	0.0	0.0
Delhi	13	13	1313	1312
Lakshadweep	54	54	5436	5436
Puducherry	24	18	1807	1635
All India	92974	106085	10882195	10714955

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

25.17 Output of Top Five Oilseed Crops at Constant (2011-12) Prices

State	% share 2011-12	GVO (Rs. '000 crore)				
		2014-15	2015-16	2016-17	2017-18	2018-19
Soybean	27	23	19	30	25	30
Groundnut	23	26	23	26	33	23
Rapeseed & Mustard	21	20	22	25	27	30
Coconut	13	12	13	11	11	12
Castor	11	9	9	7	8	6
Remaining Oilseeds	7	7	7	7	31	36
Total Oilseeds	100	97	93	106	109	107

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

Consumption and value of output of oilseeds and oils

25.18 Output of Oilseed Crops at Constant (2011-12) Prices: Top five States

State	% share 2011-12	GVO (Rs. '000 crore)			
		2015- 16	2016- 17	2017-18	2018-19
Tamil Nadu	8	7	5	7	7
Maharashtra	10	6	13	10	12
Madhya Pradesh	17	14	1B.7	16	19
Rajasthan	17	18	20	20	22
Gujarat	21	18	20	24	15
All India	100	93	106	109	107

Source: <http://www.mospi.gov.in/>: National Statistical Office, Ministry of Statistics & Programme Implementation, GOI

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Varieties and Hybrids

26.1 List of Varieties/Hybrids (Soybean)

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1	DSb 21	2015	1919(E), 30.7.14 S.O.1228 (E), 7.5.15	JS 335 x EC 241778	90-95	2807	18.2	Semi-determinate growth habit, yellow seed coat and brown hil resistant to rust	Karnataka
2	NRC 86 (Ahila-6)	2015	268(E) 28.1.15	RKS 15 x EC 481309	95-97	2128	19.8	Highly resistant to charcoal-rot, moderately to highly resistant for girdle beetle and moderately resistant to bacterial pustule, pod-blight, 40.60% protein content; collar-rot and stem-fly	Maharashtra, Madhya Pradesh, Chhattisgarh, Rajasthan
3	PhuleAgran (KDS 344)	2015	268(E), 28.1.15	JS 335 x EC 241780	105-110	2555	18.6	Tolerant to rust, moderately resistant to stem-fly, pod-borer and leaf-roller; 34.6% protein content;	Karnataka, Andhra Pradesh, Telangana
4	Pusa 12 (DS 12-13)	2015	1228(E), 7.5.15	Mutant of DS 74	124-131	2286	19.6	Resistant to yellow mosaic virus, Rhizoctonia aerial blight and bacterial pustules; 37.8% protein content;	Punjab, Haryana, Delhi, Uttarakhand, Uttar Pradesh
5	SL 958	2016	112(E), 12.1.16	SL 525 x SL 706	142	2282	19.8	Light yellow oval seeds with black hilum; suitable for timely sown irrigated areas; resistant to yellow mosaic virus (YMV) and soybean	Punjab

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
								mosaic virus (SMV)	
6	NRC 86 (Ahila-6)	2015	268(E), 28.1.15		95-97	2128	19.8	Highly resistant to charcoal-rot, moderately to highly resistant for girdle beetle and moderately resistant to bacterial pustule, pod-blight, 40.60% protein content; collar-rot and stem-fly	Maharashtra, Madhya Pradesh, Uttar Pradesh, Rajasthan, Gujarat
7	JS 20-69	2016	2238(E), 29.9.16	JS 97-52 x SL 710	93-95	2300-2500	20-22	Medium-sized spherical yellow and shiny seeds with black hilum; resistant to YMV, charcoal rot, bacterial pustules, Alternaria leaf spot, pod blight, Indian bud blight, target leaf spot	Madhya Pradesh
8	VL Soya 77 (VLS 77)	2016	3540(E), 22.11.16	PK 472 x JS 335	112-127	1970	18.6	Large seeds, yellow seeds with black hilum; suitable for rainfed organic conditions; moderately resistant to frog -eye leaf spot, pod blight	Uttarakhand Hills
9	VL Bhat 201 (VLB 201)	2016	3540(E), 22.11.16	Local Germplasm VHC 3071	117	1642	15.45	Black and large seeded; resistant to frog-eye leaf spot, girdle beetle	Uttarakhand Hills

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
10	MACS 1281	2016	2238(E), 29.6.16	JS(SH) 93-01 x MACS 13	96	2519	18.15	Round, yellow seeds and black hilum; moderately resistant to bacterial pustules, bacterial leaf blight	Southern Maharashtra, Karnataka, Telangana, Andhra Pradesh, Tamil Nadu
11	Raj Soya 24 (RVS 2002-4)	2017	1007, 30.3.17	JP 120 x JS 335	96	1905	21-22.5	Tolerant to major leaf, pod and root rot diseases, girdle beetle and semi looper attacks	Madhya Pradesh, Maharashtra, Rajasthan and Uttar Pradesh
12	Pant Soybean 24 (PS 1477)	2017	2805(E), 25.8.17	JS 335 x PS 1024	113	2560	20.50	Multiple disease resistant, free from lodging and shattering, tolerant to drought to some extent	Uttar Pradesh and Uttarakhand
13	Pant Soybean 21 (PS 1480)	2017	2805(E), 25.8.17	PS 1029 x PS 1241	123-126	2057	19.25	Resistant to yellow mosaic virus (YMV) and bacterial pustule, tolerant to RAB, rainfed/irrigated cultivation in plains and lower hills of Uttarakhand	Uttarakhand
14	Pant Soybean 23 (PS '1521)	2017	2805(E), 25.8.17	PS 1029 x PS1241	112-115	1915	19.8	Resistant to lodging and shattering, rainfed/irrigated cultivation in plains and lower hills of Uttarakhand	Uttarakhand
15	Raj Soya 18 (Pragya)	2017	2805(E), 25.8.17	JSM 110 x JSM 66	92	1911.78	21.55	Resistant to YMV and charcoal rot, erect plant type suitable for intercropping	Madhya Pradesh

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
16	Jawahar Soybean 20-98 (JS 20-98)	2018	1379(E), 27.3.18	JS 97-52 x SL 710	96-101	2094	19.3	Suitable for medium to high rainfall normal sowing conditions, resistant to charcoal rot and YMV disease.	MP, Bundelkhand region of Uttar Pradesh Rajasthan, Gujarat, Marathwad and Vidarbha region of Maharashtra.
17	Chhattisgarh Soybean-1 (CG SOYA-1)	2018	1379(E), 27.3.18	JS-80-21 x RSC-4	95-100	2445	20-23	Resistant to Indian bud blight, Myrothecium leaf spot and bacterial pustule disease	Chhattisgarh
18	Kota Soya 1 (RKS 113)	2018	1379(E), 27.3.18	Pratap Soya 2 x NRC 7	100-102	1893	20	Suitable for rainfed condition under assured rainfall in kharif, resistant to YMV disease, good germinability and tolerant to pod shattering.	Assam, WB, Jharkhand, Chhattisgarh and North Eastern States
19	DSb. 23 (DSb 23-2)	2018	1379(E), 27.3.18	JS 335 x EC 241780	95	3900	18.63	Suitable for tained and irrigated conditions, highly resistant to soybean rust caused.	Karnataka, Tamil Nadu, Telangana, Andhra Pradesh, and Southern Maharashtra
20	KS - 103	2018	1379(E), 27.3.18	JS 335 x EC 241780	91-95	2537	18.10	Suitable for irrigated and rainfedkhatif, resistance to field rust and pest complex.	Southern Maharashtra, Andhra Pradesh, Karnataka, Telangana, Tamil Nadu
21	MAUS - 612	2018	1379(E), 27.3.18	MAUS 71 xHimso 1563	91-95	2531 (max 2760)	20.49	Suitable for assured rainfall of 700 to 1000 mm with medium to	Maharashtra and Southern India.

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
								heavy Soli, resistant to charcoal rot.	
22	Basara (ASb-22)	2018	6318(E), 26.12.18		105-115	2663	19.51	Suitable for rainfedkhairf	Telangana
23	NRC 127	2018	6318(E), 26.12.18	JS 97-52 x PI 542044	102	1807.29	18.5-20	Suitable for rainfed, normal sowing time yield: shown promising resistance against pod borer, Lepidopteran defoliators and pest complex	Madhya Pradesh, Rajasthan, Bundelkhand region of Uttar Pradesh, Gujarat, Marathwada and Vidarbha region of Maharashtra
24	PhuleSangam (KDS 726)	2019	1498(E), 01.04.19	JS 93-05 x EC 241780	96-97	2442	18.42	Resistant to purple seed stem and tolerant to pest complex	Maharashtra, Karnataka, Telangana, Andhra Pradesh, Tamil Nadu
25	VL Soya 89 (VLS 89)	2019	1498(E), 01.04.19	VLS 47 x EC 361364	116	2324	19.07	Suitable for timely sown rainfed conditions of northern hills zone, moderately resistant to frog eye leaf spot and pod blight diseases promising against bugs and leaf hopper	Himachal Pradesh and Uttarakhand
26	Jawahar Soybean – 20-94 JS-20-94	2019	3220(E), 5.9.19	JS 97-52 X JS 20-02	97.3	2104.8	20.35	Resistant to YMV and Charcol rot, Rhizoctonia aerial blight and Alternaria leaf spot	Madhya Pradesh, Bundelkhand region of Uttar Pradesh, Rajasthan, Gujarat and Marathwada and Vidarbha region of Maharashtra.
27	Shalimar Soybean-1 (AGR/538)	2019	3220(E), 5.9.19	AGR/538	140-145	2030-2560	13.56	Resistant to yellow mosaic Virus as well as Alternaria blight	Jammu and Kashmir.

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
28	Jawahar Soybean 20-116 (JS 20-116)	2019	3220(E), 5.9.19	JS 97-52 x JSM 120 A	100.9	2122.45	16.32	Resistant to YMV and Charcol rot	Assam and North-Eastern States, Madhya Pradesh, Bundelkhand region of Uttar Pradesh, Rajasthan, Gujarat, Marathwada and Vidarbha region of Maharashtra, Bihar, West Bengal, Jharkhand, Chhattisgarh and Odisha.
29	AMS-1001 (PDKV Yellow Gold)	2019	3220(E), 5.9.19	Mutant of JS 93-05	95-100	2173	18.93	Resistant to root rot, YMV, Alternaria leaf spot	Maharashtra.
30	DSb 28-3	2020	99 (E), 06.01.2020	JS 93-05 x EC 241780	95	2335		highly resistant soybean rust caused by Phakopasorapachyrhizi Syd, Under field conditions, moderately resistant to defoliator, pod borer, stem fly, girdle beetle, leaf miner and reaction to insect pest complex and aphids.	Andhra Pradesh, Karnataka, Maharashtra, Tamil Nadu, Telangana
31	DSb 32	2020	99 (E), 06.01.2020	DSb 23 x JS 95-60	102	2335		highly resistant soybean rust caused by Phakopasorapachyrhizi Syd, Under field conditions, moderately resistant to defoliator, pod borer, stem fly, girdle beetle, leaf miner and reaction to insect pest complex and aphids.	Assam
32	Pant Soybean 25 PS 1556	2020	99 (E), 06.01.2020	Multi parental crosses	118-120.5			Resistant to Yellow Mosaic virus (YMU), Soybean Mosaic Virus	Himachal Pradesh, Uttar Pradesh

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
				(PS1042 x MACS450) x (PS1024 x PS1241).				(SMV), Bacterial Pustule & Bacterial blight (BLB), Modertely resistant to Rhizoctonic Aerial Blight (RAB), Brown spot (BS), Colletorichumytrucatum (PBct) & Frogeye leaf spot (FLS).	
33	Pant Soybean 26 PS 1572	2020	99 (E), 06.01.2020,	Multi parental crosses (PS1092 x PS1024) x PS1241.	117-125			Resistant to Yellow Mosaic virus (YMU), Soybean Mosaic Virus (SMV), Bacterial Pustule & Bacterial blight (BLB), Modertely resistant to Rhizoctonic Aerial Blight (RAB), Brown spot (BS).	Delhi, Haryana, Punjab, Uttar Pradesh@
34	SL 955	2020	99 (E), 06.01.2020,	SL 599 x PK 1283	124-128	2201		Resistant to YMV.	Bihar, Delhi, Haryana, Uttar Pradesh
35	SL-978	2020	99 (E), 06.01.2020,	SL 525 x DS 98-14 SL 525	124-130	2335		Resistant to YMVand SMV	Bihar, Delhi, Haryana, Punjab, Uttar Pradesh,
36	KBS-23	2020	3482 (E), 7.10.2020	JS 335 X KHSb 2.	90-95	2000-2500		Resistant to leaf miner under field conditions.	Karnataka
37	PhuleKimaya (KDS 753)	2020	3482 (E), 7.10.2020	JS 93 05 x EC 241780		2300-2500			Assam, Chhattisgarh, Jharkhand, Karnataka, Maharashtra, Odisha, Tamil Nadu, Telangana, West Bengal

Source: <https://seednet.gov.in>; <https://iisrindore.icar.gov.in>; <https://nmoop.gov.in>;

26.2 List of Varieties/Hybrids (Indian Mustard)

Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1. Gujarat Mustard-3 (GM-3)	2015	112(E), 12.1.15	RSK 78 x Varuna	103-112	1661-2811	38-40.06	Irrigated conditions, Early, Bold seeded (6.02 g/1000 seed wt.), Tolerant to high temperature	Gujarat
2. Gujarat Dantiwada Mustard-4 (GDM-4)	2015	1228(E), 7.5.15	SKM 9433 x GM 2	104-115	1850-3031	38.40-39.02	Irrigated conditions, High Yield, Bold seeded, High oil content, tolerant to powdery mildew and aphids	Gujarat
3. Albeli-1	2015	1228(E), 7.5.15	SVM-19 x SVM9102	140-145	2133	40.8	Irrigated conditions; tolerant to Alternaria blight, white rust and powdery mildew	Eastern Rajasthan, Madhya Pradesh, Uttar Pradesh, Uttarakhand
4. Pant Rai-20	2012/2015	2680(E) 01.10.15	Pure line selection from Kranti'	122-128	2500-3000	40	High yielding, medium maturity, bold seeded, suitable for irrigated/rainfed timely sown conditions. High temperature tolerance at maturity.	Rajasthan, Punjab, Haryana, Delhi, Jammu and Kashmir and
5. PBR-357	2015	2680(E), 1.10.15	(PBR 91 x RLM 514) x Bio 902	132-155	2039-2342	35.2-40.2	Bold seeded, suitable for irrigated timely sown conditions	Punjab, Haryana, NCR, parts of Rajasthan
6. RGN-298	2015	2680(E), 1.10.15		143	2172	40	Suitable for rainfed conditions	Rajasthan, Punjab, Haryana, Delhi, Jammu and Kashmir and Uttar Pradesh
7. RSPN 25	2015	2015		145-155	1500- 1800	36-39	Irrigated conditions,	Jammu
8. GSC 7	2015	2015		139-232	1793- 2190	38.6 42	Timely- sown, irrigated conditions, low erucic and low glucosinolate content; average seed	Punjab, Himachal Pradesh, Jammu
9. Pusa Mustard 28	2016	486(E), 16.6.16	SEJ 8 x PusaJagan nath	107	933-3003	40-42.8	Suitable for early (September) sown irrigated conditions and a good substitute to <i>B. rapa</i> cv. Toria	J & K (Plains), Punjab, Haryana, Rajasthan, Delhi and Western UP.

Varieties and Hybrids

Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability	
10 Pusa Double Zero Mustard-31 (PDZ 1)	2016	2238(E), 29.1.16	LES 1-27 x NUDHYJ-3	142	2234	40.7	Low erucic acid and low glucosinolate	NCR region of Delhi	
11 RLC 2 (IC 5 1 1 6 1 5)	2016	3540(E), 22.11.16		142-150	2039-2342	36.3-38.9	Low erucic acid	Punjab	
12 PBR 378	2016	3540(E), 22.11.16	(PBR 91 x RLM 514) x RLM 619	134-156	1228-3484	37.7-41.9	Timely sown rainfed conditions	Punjab, Haryana, parts of Rajasthan	
13 Gujarat Dantiwada Mustard 5 (GDM 5)	2016	3540(E), 22.11.16	BIO 129-97 x NDR 9503	134-155	2081-2360	38.0-41.4	High Yield, High oil content (40.50%), Tolerant to lodging and shattering, Suitable for timely sown rainfed conditions	Punjab, Haryana, Jammu, Northern Rajasthan and Delhi	
14 Raj Vijay Mustard 1	2016	3540(E), 22.11.16	Selection from Bastar (CG) region	98-121	1389-2019	40.2-43.1	Suitable for rainfed conditions	Madhya Pradesh	
15 RLC-3	2016	3540(E), 22.11.16	JM06003 x JM06020	138 -150	2175 -2435	41.5	Double low, yellow seeded, white rust immune variety	Irrigated conditions of Punjab	
16 CS-58 (CS 1100 - 1-2-2-3)	2017	1007, 30.3.17	CS52 x CS609-B10	128-142	1734-2168	38.5-39.5	Salinity tolerant	Haryana, Punjab and Uttar Pradesh	
17 Pant Rai-21 (PRB-2008-5)	2015/2017	SO.1007(E) Dt: 30.03.17	(Varuna x Pusa Bold) x BSIPS-23	122-125	2500-3000	40	High yielding, medium maturity, bold seeded, long siliqua, long main raceme, resistant to Alternaria leaf blight	Suitable for irrigated timely sown conditions of Uttarakhand plains	
18 RH-725	2018	1379(E), 27.3.18	RH 781 x RH-9617	136-143	2500-2600	40.2	Suitable for timely sowing and rainfed conditions, moderately resistant to Alternaria leaf blight, white rust and aphid Infestation	Jammu, Punjab, Haryana, Delhi and Northern Rajasthan	
19 CS-60 (CS2800-1-2-3-5-1)	2018	1379(E), 27.3.18	CS330-1-1 x CS609-B10	125-132	1900-2200	40-41	Under saline and alkali soil conditions	Highly suitable for timely sown, salt-affected soil and water conditions with salinity level (ECe) up to 12.0 dS /m, water salinity up to 15 dS/m and alkali soils up to pH 9.5, resistant to Alternaria blight, WR, PM, DM, stag head and SR, tolerant to aphid	Haryana, Punjab, Uttar Pradesh and Rajasthan

Varieties and Hybrids

Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
20 Pusa Double Zero Mustard-31 (PDZ-1)	2018	1379(E), 27.3.18	LES-1 x NUDHYJ-3	141-152	2234	40.7	Suitable for timely sowing under rainfed conditions	Rajasthan, Punjab, Haryana, U.P., Delhi & Jammu and H.P.
21 RSPR-69 (MCN-04-35)	2018	1379(E), 27.3.18	RLM 198 x Varuna	135-145	1990	39.4	Suitable for irrigated and rainfed areas, timely sown, resistant to white rust and moderately resistant to Alternaria blight and major pests	Jammu region
22 RH 761	2019	3220, 5.9.19	JMR 9738 x RH 30	137-143	2500-2600	40.4	Suitable for timely sowing and rainfed conditions, long siliqua with bold seeds	Jammu, Punjab, Haryana, Delhi and Rajasthan (Northern Region)
23 TBM-204 (TrobayBidhan Mustard- 204) TM-204	2019	3220, 5.9.19						West Bengal
24 Kesari Gold (31J3403)	2019	3220, 5.9.19		95	1792		Resistant to aphid infestation and moderately resistant to White Rust	West Bengal
Kesari 5111 (PCJ03-401)	2019	3220, 5.9.19	A Line PA21J140; B Line PB21J240; R Line PR21J436	92-105	1481		Resistant to aphid infestation and moderately resistant to White Rust	West Bengal
Pro 5222 (Bayer Mustard 5222)	2019	3220, 5.9.19		105-122	1678 kg/ha		Resistant to lodging and responsive to high level of nitrogen application, ideal for early sown conditions due to tolerance to high temperature at seedling stage, tolerant to terminal heat stress, resistant to aphid infestation	West Bengal
25 Azad Mahak KMR(E) 15-2	2020		Mathura Rai x JD-6	120-125	2047	41.60	Tolerant to high temperature, it escapes from diseases, Alternaria blight, white rust and fog.	Uttar Pradesh

Varieties and Hybrids

26.2.a. List of Varieties/Hybrids (Yellow Sarson)

S. No.	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	Pant Sweta (PYS - 2007-10)	2015/2017	SO.1007(E) Dt: 30.03.17	PYS-841 x PYS-7	105-110	1600-2000	45	High yielding, suitable for sowing in October under irrigated conditions, tetralocular upright bearing and cream colour flowers	Uttarakhand plains
2.	Pant Girija	2018/2020	SO.99(A) Dt: 6.01.20	NDYS-123 x Ragini	92-128	1400-1700	45.30	Medium maturity, yellow flowered upright, bilocular siliqua bearing.	Plains of Uttarakhand

26.2.b. List of Varieties/Hybrids (Torja)

S.No.	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	Sushree	2015	3-48/2015. SD-IV, dated 23.11.20 15	Mutant of TS-29	75 -83	1381 (Average yield)	42.15%	Suitable for late sown condition and non-lodging type	Odisha
2.	TL 17	2016	3540(E), 22.11.16	Selection from TLC1	90	1300	42	Suitable for multiple cropping systems. Escapes major diseases and pests	Toria growing districts of Punjab
3.	Pant Hill Toria-1 (PT-2006-4);	2017	SO.1007(E) Dt: 30.03.17	PT-9719 x TS-50	122-134	900-1200	42	High yielding, suitable for sowing under rainfed conditions.	Uttarakhand hills.
4.	Pant Toria-508 (PTE-2008-2);	2017	SO.1007(E) Dt: 30.03.17	(PT 507 x Bhawani) x PT 303	91-96	1600-1900	42	High yielding, suitable for sowing in September under irrigated conditions. Moderately resistant to white rust and resistant to stag head formation	Uttarakhand plains

Varieties and Hybrids

S.No.	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
5.	Raj Vijay Toria 1	2017	2805(E), 25.8.17	JT 1 x T9	98-105	1276-1874	41.2	Tolerant to drought, suitable for rainfed and irrigated condition, tolerant to shattering, sowing lime - first to second week of September	Madhya Pradesh
6.	Tapeshwari (TK 06-1)	2018	6318(E), 26.12.18	Mass selection from population (ORT-5,JMT-298,PT-303,T9 and Bhawani)	90-95	13.5-14	41.96	Suitable for rainfed, irrigated areas and recommended for extra early sowing, i.e. mid September, tolerant to drought and fog, being extra early maturity, it escapes diseases especially Alternaria blight, aphid and white rust.	Uttar Pradesh
7.	Tripura Toria 1 (TRC T-1-1-5-1/ IC 615573)	2018	6318(E), 26.12.18		86	800-900		Suitable for rainfed upland and lowland after <i>kharif</i> , perform well under residual moisture after <i>kharif</i> rice, also as utera crop, maturity: resistant to lodging, exhibits very low incidence of white rust, Sclerotinia rot, bacterial stem rot and aphid.	Tripura
8.	RSPT-6 (TCN 13-9)	2019	1498(E), 1.4.19	RSPT-1 x RSPT-2	85-90	1130	42.6	Moderately resistant to white rust, downy mildew, Alternaria blight, aphid and major pests	Jammu Region
9.	Azad Chetna (TKM 14-2)	2020	2020	Mass selection from population (TK01-1,TK01-2,PT-303,T K02-1, TK02-2, TK 9901,PT-507,T9 and Bhawani)	90-95	1440	42.2	Being early in maturity it escapes from Alternaria blight, aphid and fog.	Uttar Pradesh

26.2. c. List of Varieties/Hybrids (Brown Sarson)

S.No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	HPBS-1	2018	2018	composite of single plant selections from a local cultivar from Kukuraseri in Lahaul&Spiti district of Himachal Pradesh	147	1000-1200		Suitable for rainfed farming in late September– October in low and mid hills of Himachal Pradesh	Himachal Pradesh
2.	Shalimar Sarsaon-3 (KBS-3)	2019	3220(E), 5.9.19	PusaKalyani x Yukina	150-155	900-1200	40-45	Resistant to white rust and cold tolerant	Jammu and Kashmir
3.	Shalimar Sarsaon-2 (KBS-49)	2019	3220(E), 5.9.19						Jammu and Kashmir

Varieties and Hybrids

26.2.d. List of Varieties/Hybrids (Taramira)

S.No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	Jobner Tara (RTM-1351)	2017	1007(E), 30.3.17	T-27 x RTM-2002	137-142	1300-1500	39.70	Suitable for rainfed situation	Rajasthan, Haryana, Punjab, UP, Gujarat, Delhi, Uttarakhand and Maharashtra
2.	Jwala Tara (RTM-1355)	2017	2805(E), 25.8.17	RTM-910 x T-27	133-145	1300-1400	38.90	Suitable for rainfed situation	Rajasthan, Haryana, Punjab, UP, Madhya Pradesh, Gujarat and Delhi

26.2.e. List of Varieties/Hybrids (African Sarson / Ethiopian Mustard)

S.No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	BJC 1 (PC 6)	2016	3540(E), 22.11.16	(<i>B.juncea</i> x <i>B.carinata</i> cv PC 5) x <i>B.napus</i> cv GSC5	157	1930	40	Determinate plant canopy with every shoot terminating into a pod. Free of white rust.	Punjab

26.2.f. List of Varieties/Hybrids (Gobhi Sarson)

S.No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	RSPN-25 (NCN-15)	2015	1936/196, 28.1.15	<i>B.napus</i> x <i>B.hirta</i>	145-155	1595	39.0	Variety has broad leaves; basal branching, resistance to lodging,	Jammu region

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
2.	GSC 7 (GSC lol)	2015	1228(E), 7.5.15	Rivette x RR001	144-163	1911-2190	38.6-42.0	responsive to fertilizers, suitable for timely sown conditions '00' canola quality variety	Punjab, Haryana, Himachal Pradesh, Jammu and Kashmir and Rajasthan
3.	ONK 1	2019	212(E), 24.6.19	Single plant selection from a local variety Sheetal which was developed as a single plant selection from Exotic line EC-129127	146-172	1300-1500	37.9-42.2	Low incidence of Alternaria leaf blight and Sclerotinia stem rot, resistance to white rust and moderate resistance to downy and powdery mildew, wider adaptability	Himachal Pradesh, Jammu & Kashmir, Punjab, Haryana

Source: <https://seednet.gov.in>; <http://www.drmr.res.in/>

26.3 List of Varieties (Groundnut)

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	Gujarat Junagadh Groundnut-18 (JSP-49)	2015	268(E), 28.01.15	JSSP-12X LGN-2; K-99-13-B-1-1-B-B	121	1557 (Pod) 1215 (Kernel)	48	Moderately resistant to PBNB and PSN	Odisha, West Bengal, Jharkhand and Manipur

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
2.	Raj Mungfali-2 (RG-578)	2015	268(E), 28.01.15	ICG 5013 x RG 141	120	1480 (Pod) 1071 (kernel)	46	Resistant to LLS, dry root rot, ELS and rust ; tolerant to S. litura, thrips, jassids and leaf miner	Odisha, West Bengal, Jharkhand and Manipur
3.	PhuleBharati (JL 776)	2015	1228(E), 070.5.15	Selection from (ICGV 92069 x ICGV 93184) x ICGV 98300	105-110	2110 (P) 1461(K)	51	Resistant to S. litura and rust in field condition	Maharashtra, Madhya Pradesh, Tamil Nadu, Andhra Pradesh
4.	G 2-52	2015	2680(E), 1.10.15	Gamma rays(200 Gy) induced mutant of GPBD 4	105-110	2000- 2500	48	Resistant to rust and late leaf spot (LLS), Foliar disease resistant	Northern Karnataka
5.	Birsa Groundnut 4 (BAU 25)	2015	268(E), 28.01.15	Robut 33-1 x M-13	115-120	2000-2200	50.78	Resistant to LLS	Jharkhand
6.	Groundnut Co 7	2015	2680(E), 01.10.15	ICGV 87290 x ICGV 87846	100-105	2300 (kharif); 2806 (rabi-summer)	50.5-51	Resistant to rust	Tamil Nadu
7.	Gujarat Junagadh Groundnut-19 (GJG 19) (JSP 51)	2016	2238(E) 29.06.16	JSSP-12 x LGN-2; K-99-13-B-1-2-B-B	122	1876	47	Tolerance to stem rot, dry root rot and rust	Odisha, West Bengal, Jharkhand and Manipur

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
8.	Raj Mungfali 3 (RG 559-3)	2016	3540(E), 22.11.16	(TKG 19A x Kadiri 3) x TKG 19A	125	3173	49	Tolerant to Spodoptera litura, leaf hopper and thrips	Odisha, West Bengal, Jharkhand and Manipur Rajasthan, UP and Punjab
9.	PhuleWarna (KDG 128)	2016	3540(E)/22.11. 2016 and 399(E)24.1.20 18 (Area Extended)	Selection from ICGV-020059- SSU-SSD-P 37- B1 received from ICRISAT (ICGV 87121 x ICGV 87853) x 92023) x ICGV 98300)	115-120	2425	50.2	Moderately resistant to rust and LLS	Tamil Nadu, Andhra Pradesh, Karnataka, southern Maharashtra Gujarat and Rajasthan
10.	PhuleMorna (KDG 123)	2016	3540(E)/22.11. 2016 and 399(E)24.1.20 18 (Area Extended)	Secondary selection from line ICGV- 04168, (ICGV 96050 x ICGV 96239)	120-125	2212	46-48	Moderately resistant to rust and LLS	Gujarat, southern Rajasthan, West Bengal, Jharkhand, Odisha, Manipur, Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
11.	KCG 6 (CTMG 6)	2016	3540(E), 22.11.16	(BPI PnG x ICGV 95172) x ICGV 96234	116	3663	51	Moderately resistance to rust and late leaf spot	Southern Karnataka
12.	GKVK 5	2016	3540(E), 22.11.16	NRCG 11915 x NRCG 12326	115-120	2500-2800	50	Moderately resistance to rust and late leaf spot	Southern Karnataka
13.	Central Groundnut ALG06-320 (ALG-06-320)	2017	1007(E), 30.3.17	(R-33-1 x I CG (FDRS) 68 x (NcAc 17090 x ALR 1)	115	2741	50.3	Tolerant to rust, LLS and Peanut Bud Necrosis disease (PBND), S. litura, leaf miner and thrips	Tamil Nadu, Andhra Pradesh
14.	KadiriAmaravathi (K1535)	2017	1007(E), 30.3.17	Kadiri 6 x NCAc 2242	110-115	1600-1800	50	Tolerant to leaf spot, sucking pests (thrips and jassids)	Andhra Pradesh
15.	KadiriChitravathi (K1719)	2017	2017	Kadiri 7 Bold x TAG 24	110-120	3000-3400	40	70% shelling potential	Andhra Pradesh, Telangana, Tamil Nadu
16.	VRI 8 (VG 09220)	2017	2805(E), 25.8.17	ALR 3 x AK 303	105-110	2130 (Kharif); 2700 (Rabi-summer)	49	Moderately resistant to sucking pest (jassids and thrips), moderately resistant to LLS and rust	Tamil Nadu
17.	Gujarat Junagadh Groundnut 32 (GJG 32 (ICGV 03043)	2018	399(E), 04.01.18	(F 334 A-B-14 x NCAc 2214) x ICG 2241) x (ICGMS 42 x Kadiri 3) x ICGMS 28 x (F 334A-B-14 x NCAc 2214)] x LI x (Robut 33-1-1-5)	109	1947	50	Tolerant to stem rot, Collar rot and rust	Tamil Nadu, Andhra Pradesh, Telangana, Karnataka, Kerala and Southern Maharashtra

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
18.	Gujarat Junagadh Groundnut 33 (GJG 33) (ICGV 07222)	2018	1379(E), 27.3.18	[(ICGV-92069 x ICGV-93184) SIL-4 x (ICGS 44 x ICGS 76)]	113	3064	51	Tolerant to stem rot, collar rot, dry root rot; foliar fungal (rust, early leaf spot) and peanut bud necrosis diseases (PBND); Tolerant to Helicoverpa and Spodoptera leaf damage	Andhra Pradesh, Telangana and Tamil Nadu
19.	Avtar (ICGV 93468)	2018	2018	ICGV 86015 x ICGV 86155	85-95	24.0 q/ha(summer) 22.5 (kharif)	51.1	Suitable for irrigated summer season, tolerant to PBND and jassids.	Uttar Pradesh
20.	NityaHaritha (TCGS 1157)	2018	2018	TAG 24 x Jyothi	105-110	18 q/ha		Suitable for rainfed/ supplementary irrigated conditions, timely sown, , tolerant to rust, late leaf spot and PBND.	Zone III (Maharashtra and Madhya Pradesh)
21.	Dh 232	2018	6318 (E), 26.12.18	GPBD 4 x TG 37A	105-110	14.8 -23.4 q	46.9	Suitable to kharif, tolerant to rust, and late leaf spot diseases.	Karnataka
22.	Dh 245	2018	6318 (E), 26.12.18	Gamma rays mutant of GPBD4)	105-108	14.1 – 23.4 q	45.9	Suitable for kharif Tolerant to rust, late	Karnataka

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
								leaf spot diseases.	
23.	Phule Chaitanya (Central – KDG-160)	2018	2018	Selection from [(ICGV 92069 x ICGV 93184) x (ICGV 87121 x ICGV 87853) x ICGV 92023]	116	34.0 q	51.6	Suitable for rabi summer, moderately resistant to stem rot and late leaf spot disease	Andhra Pradesh, Tamil Nadu, Telangana
24.	Konkan Bhuranta (RTNG-29)	2018	2018	PBS 24030 x GPBD 4	115-120	25.0 – 30.0 q	50.0	Resistant to leaf spot, rust, Peanut bud necrosis disease, Alternaria leaf blight, thrips, jassod, leaf minor and pests	Maharashtra
25.	Gujarat Groundnut HPS-2 (GG HPS-2)	2018	2018	JVBHPS 2 x GG 20 (S-08-6-B-1-B-B-B)	118-129	28.3 q (Pods) 19.4 q (kernels)	48.8	Resistant to stem rot and collar rot, rust	Gujarat
26.	PDKVG-335 (AK-335)	2018	2018	Selection from TG 36B	110-113	25.7 q (Pods) 18.3 q (kernels)	48	Moderately resistant to Tikka, Collar rot, stem rot, jassids, thrips and aphids	Maharashtra
27.	Gujarat Groundnut-34 GG 34) (AG2012-06)	2019	3220(E). 0 5.09.19	TG 26 x ICGV 00380	117-125	3715	52.82	High yielding, bold seeded, high oil content	Gujarat
28.	Dheeraj (TCGS 1073)	2019	3220(E). 0 5.09.19	VRI 2 x TCGP-6	100-105	1600-2600	50	Drought tolerant, tolerant to low light conditions	Andhra Pradesh
29.	BSR 2 (BSG 0912) (INS I 2013-8)	2019	3220(E). 0 5.09.19	VRI 2 x TVG 0004	105-110	2222	45.01	Moderate resistance to late leaf spot and rust diseases.	Tamil Nadu
30.	PhuleUnnati (RHRG-6083)	2019	3220(E). 0 5.09.19	Selection from (ICGV 92069 x	111-128	3500-4000 (summer)	52	Resistance to Spodoptera, Rust, moderately	Maharashtra

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of notification	Notification No.	Pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
31.	PhuleDhani (JL 1085)	2019	3220(E). 0 5.09.19	ICGV 93184) x (ICGS 44 x ICGS 76) JL 24 x ICGV 03061	100-110	2500-3000 (kharif) 3000-3500	51	resistant to Late Leaf Spot and Stem rot, Tolerant to stress due to dark green lanceolate leaves Resistant to soil borne diseases, moderately resistance to foliar diseases and resistance to pest Spodoptera and thrips incidence under field conditions	Maharashtra

Source: <https://seednet.gov.in>; <http://www.dgr.org.in>; <https://nmoop.gov.in>;

26.4 List of Varieties/Hybrids (Niger)

S. No	Name of the Variety / Hybrid	Year of Notification	Notification No.	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	JNS 30	2016	3540(E), 22.11.16	100-105	550-600	35-37	Seed Shining Black, tolerant to Cercospora and Alternaria leaf spot and root rot diseases under field conditions	Madhya Pradesh
2.	Phule Vaitarana (IGPN 8004)	2016	3540(E), 22.11.16	105-110	500-550	39-41	Bold seeded with shiny black colour, high oil quality and protein content	Maharashtra

Varieties and Hybrids

S. No	Name of the Variety / Hybrid	Year of Notification	Notification No.	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
3.	JNC-28	2016		100	550-600	34-36	Resistant to the leaf spot and Powdery mildew diseases under field conditions	
4.	JNC-30	2016		100-105	550-600	35-37	Resistant to Cercospora and Alternaria leaf spot under field condition	
5.	GNNIG-3	2017	2805(E), 25.08.17	100-105	400-450	46-48	Seed Shining Black, tolerant to Cercospora and Alternaria leaf spot and root rot diseases under field conditions	Gujarat
6.	Jawahar Niger Selection 28 (JNS-28)	2017	2805(E), 25.08.17	100-110	550-650	34-36	Bold seeded with shining black colour, Resistant to Cercospora and Alternaria leaf spot	All Niger growing states

Source: <https://seednet.gov.in>; <http://www.icar-iior.org.in>; <https://nmoop.gov.in>;

Varieties and Hybrids

26.5 List of Varieties/Hybrids (Safflower)

	Name of the Variety / Hybrid	Year of notification	Notification No/ date	pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
1.	NARI-57	2015	268(E), 28.01.15	Carmex x C-2829-5-2	115-151	1500	29	Resistant to wilt	Maharashtra, Karnataka MP, Rajasthan, Punjab, UP, Jharkhand and WB
2.	NARI-96	2018	1379(E), 27.03.18	DMS T-10-1-16 x D-151-43	116-165	2023	33.21	Higher tolerance to wilt than national checks A-1 and PBNS-12 and on par with the national checks for Alternaria	Maharashtra, Telangana, Andhra Pradesh, Madhya Pradesh, Chhattisgarh and Rajasthan.
3.	DSH-185	2018	1379(E), 27.03.18	A - 133 x 1705 - P22	121-143	1430-1740	28-29	Resistant to wilt	All India
4.	PBNS-86 (PURN A)	2018	6318(A), 26/12/2018	MS-101 x GMU - 1990-4-20	125-141	1800-2000	30	Moderately tolerant to wilt, Alternaria and aphids	Maharashtra
5.	Tandur Kusuma-1	2018	150, 24.01.19						
6.	ISF-764	2019	2019	SFS-2042 x EC52 3360	125-130	1583 (R), 2274 (I)	31	High seed yield	All India, Maharashtra, Karnataka, Telangana, Andhra Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Uttar Pradesh, Rajasthan)
7.	ISF-1	2019	2019	(A1x 9-5-7)7-50-5-1	125-130	1236 (R), 1864 (I)	31-32	High oleic acid content (76%)	All India (Maharashtra, Karnataka, Telangana, Andhra Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Uttar Pradesh, Rajasthan)
8.	SSF-12-40	2019	3-74/2019, 28.10.19	Bhima x A1	120-126	1713	32.9	High oil content (32.9%) and Oil yield	Maharashtra, Karnataka, Andhra and Telangana

Varieties and Hybrids

	Name of the Variety / Hybrid	Year of notification	Notification No/ date	pedigree	Maturity (days)	Yield (kg/ha)	Oil Content (%)	Salient features	Area of Adaptability
9.	SSF-13-71	2019		Bhim a x NARI-44		1683		moderate resistance to aphid and Alternaria leaf spot	Maharashtra, Karnataka, Telangana and Andhra Pradesh
10.	ISH-402 (Identified)	2020						High seed yield (23.25 q/ha at all India level) Oil yield ((7.23 q/ha at all India level). CGMS-based hybrid.	All India
11.	TSF-1 (Tandur Kusum)	24.01.2019	SON 150	Selection from NAS H-92-1	120-130	1200-1500 (rainfed)	28-29	Resistant to Fusarium wilt Tolerant to Alternaria leaf spot Moderately tolerant to aphid	Safflower growing areas of Telangana
12.	SSF-13-71 (Phule Bhivara)	7/10/2020	SO34 82(E)	Bhim a x NARI-44	125	1700-1800 (rainfed), 2500-2700 kg/ha (irrigated)	29.5	Moderately tolerant to aphid and wilt; Tolerant to Alternaria leaf spot	Zone I (Maharashtra, Andhra Pradesh, Telangana & Karnataka)
13.	CG Kusum-1	7/10/2020	SO34 82(E)	Selection from GMU-7368	120-125	1677 kg/ha	32-33		Chhattisgarh plains
14.	IGKV Kusum (RSS 2016-03)	2/2/2021	SO 500(E)	AKS 92-4 x GMU 3812	138-140	2710	34.26	Moderately resistant to fusarium wilt	Chhattisgarh plains and Madhya Pradesh
15.									

Source: <https://seednet.gov.in>; <http://www.icar-iior.org.in>; <https://nmoop.gov.in>;

Varieties and Hybrids

26.6 List of Varieties/Hybrids (Sunflower)

S. No	Name	V/ H	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
1.	PSH 996	H	2015		CMS-11A x P-93R	1951	96		Medium, high yielding hybrid, moderately resistant to downy mildew and charcoal root rot.	Punjab
2.	Sunlight (NSFH 1001)	H	2015		NSFL 707A X NSFL 286R	1800-2000 (R &I)	90-95	38		Karnataka, Maharashtra, TN, AP
3.	Phule Bhaskar (SS 0808)	V	2016		Selection from germplasm line GP-688-1	1807	85	38	Moderately resistant to necrosis and powdery mildew	Maharashtra
4.	PSH 1962	H	2016		CMS-67A x P-93R	2054	99			Punjab
5.	RSFH 1887	H	2016		CMS-38A x R-127-1	1800 – 2500 (I) 1200-1600 (R)	95 – 100	38 – 40	Tolerant to viral necrosis and <i>Alternaria</i> leaf spot	Karnataka
6.	Kaveri Champ	H	2017			2600 – 2800	96 – 117	40	Tolerant to downy mildew and leaf hopper	Punjab, Haryana, West Bengal, Bihar & Odisha
7.	Prabhat (Hybrid NDSH 1012)	H	2017		NDCMS-30 A x R-843	Rainfed: 1500-2000 Irrigated: 2000-2500	90 – 95	40	Tolerant to downy mildew	AP
8.	PDKV-SH-952	H	2017		CMS-302Ax AKSF-6R	1600 – 1800	90		MR to powdery mildew	Maharashtra
9.	LSFH-171	H	2018		CMS-17A x RHA-1-1	1800-2000	95-100	35	Resistant to downy mildew	MS, KK, TN, AP, Telangana, Odisha, Bihar & WB

Varieties and Hybrids

S. No	Name	V/ H	Year of notification	Notificati on No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
10.	DSFH-3	H	2018		CMS-234A x RHA-IV-77	1800-2000		38-39	Early and high seed yield and oil content	Karnataka (Rabi)
11.	COH-3	H	2018		COSF-6A x IR-6	K: 1613 R: 1822	90-95			TN
12.	KBSH-78	H	2018		CMS-1103A x RHA-92	I: 1700-2300 R: 1000-1200	82-85	39-41	Short duration and medium height hybrid	Zone 5 of Karnataka
13.	PSH-2080 -State Release		2019			2636 kg/ha			High yield and oil content	Punjab

26.7 List of Varieties/Hybrids (Castor)

S. No	Name of the variety/hybrid/inbred line developed by ICAR Institute/Dte./NRCs	Year of notification	Notification No.	pedigree	Salient features	Area of Adaptability
1.	Kohinoor (NBCH-66),	2016			Yield (kg/ha) – 2600-3000 Days to maturity – 121-148 Oil content (%) – 48.4 High seed and oil yield hybrid suitable for rainfed and irrigated region.	Gujarat. Andhra Pradesh. Rajasthan, Karnataka. Tamil Nadu, Maharashtra. M.P. and Haryana.
2.	Pragati (PCS-262)	V 2016		M-574 x PCS 124	Yield (kg/ha) – 1500-2500 Days to maturity – 80-85 Oil content (%) – 48 High seed yield, res. to wilt	Telangana
3.	HCH 6	H 2016	3540(E)	DPC-9 x TMV-6	Yield (kg/ha) – 1800(RF) Days to maturity – 90-150 Oil content (%) – 48 Resistant to fusarium wilt and white fly	Karnataka
4.	GNCH-1	H 2017		SKP-84 x DCS-94	Yield (kg/ha) – 2500-3000 Days to maturity – 90-150 Oil content (%) –	Gujarat
5.	YRCH-2	H 2017		M619-1 x SKI-215	Yield (kg/ha) : 2089 Days to maturity : 120-180 days Resistant to wilt, tolerant to semilooper, spodoptera, leafhopper and capsule borer.	Tamil Nadu
6.	GCH-8	H 2018	1379(E)	JP-96 x DCS-89	Yield (kg/ha) : 1895 (R), 3588 (I) Days to maturity : 120-180 days Oil content (%): 48 Res. to wilt and tol. to root rot	All castor growing areas of India

Varieties and Hybrids

S. No	Name of the variety/ hybrid/inbred line developed by ICAR Institute/ Dte./NRCs	Year of notification	Notification No.	pedigree	Salient features	Area of Adaptability
7.	GCH-9	H	2018	SKP-84 x PCS-124	Yield : 3781 kg/ha Quality traits: contains high ricinoleic . acid (90.23%) Maturity: 180-210 days Biotic/Abiotic Stresses: Resistance to Fusarium wilt , resistance to Macrophomina root rot	Gujarat
8.	JC-4	V	2018		Yield : 2640 kg/ha (irrigated) Maturity: 100-120 days Oil content:46-47.5% Biotic/Abiotic Stresses: Tol. to wilt and root rot	MP- Kharif/ early rabi
9.	JC-24	V	2018		Yield : 2745 kg/ha (irrigated) Maturity: 95-110 days Oil content:45-46% Biotic/Abiotic Stresses: Tol. to wilt, root rot and nematode complex	MP- Kharif/ early rabi
10.	ICH-66	H	2019	3220(E)	Yield : 1500 kg/ha (Rainfed) Maturity: 94-97 days Oil content:46-49 % Biotic/Abiotic Stresses: wilt, root rot and leaf hopper resistant	Rainfed regaions of Peninsular India- AP, TS, TN, Karnataka, Odisha
11.	Gujarat Anand Castor 11 (GAC 11)	V		3220(E)	Yield : 3230 kg/ha Maturity: 87.88 days	Suitable under irrigated areas of middle Gujarat, early maturing and high yielding wilt resistant.
12.	YTP-1 (YRCS-1205)	V	2019	3220(E)	Yield : 3110 kg/ha Oil content: 49% Maturity: 115-120 days Resistant to wilt, semilooper, spodoptera, thrips and capsule borrer	Suitable for irrigated and rainfed tracts, TN

Varieties and Hybrids

S. No	Name of the variety/ hybrid/inbred line developed by ICAR Institute/ Dte./NRCs	Year of notification	Notification No.	pedigree	Salient features	Area of Adaptability
13.	GCH-10 (GCH 10:Charutar Gold)	H	2020	SP 1 x SI 14 It	3898 kg/ha seed yield Oil content: 50.03% Maturity: 89-112 days a high yielding, medium maturing, wilt resistant hybrid	Castor growing irrigated areas of Gujarat State

Varieties and Hybrids

26.8 List of Varieties/Hybrids (Linseed)

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
1	RLC-133 (Chhattisgarh Alsi-1)	CVRC 2015			844		36.4	White flower, Early, moderately resistant to bud fly, <i>Alternaria</i> blight and powdery mildew	Chhattisgarh
2	Pratap alsi-2 (RL-26016)	2015			1957		41.81	Early maturity, moderately resistant to <i>Alternaria</i> blight, powdery mildew, wilt and bud fly	Rajasthan
3	Kota Barani Alsi 3 (RL 29202)	2015	State S.O. 2680 (E) 01.10.2015		1370		38.73	Early maturity, moderately resistant to <i>Alternaria</i> blight, powdery mildew and bud fly	Rajasthan
4	Kota Barani Alsi 4 (RL 10193)	2015	5Central S.O. 2680 (E) 01.10.2015		1100		40.37	Early maturity, moderately resistant to <i>Alternaria</i> blight and powdery mildew	Bundelkand region of Uttar Pradesh, Madhya Pradesh and Rajasthan
5	RLC-143 (<i>Utera</i> Alsi)	CVRC 2016	2018:1379 (E) /27.03.2018		570		34.14	Suitable of <i>Utera</i> para situation, blue flower, resistant to powdery mildew, moderately resistant to bud fly and <i>Alternaria</i> blight	Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Jharkhand, Maharashtra and Orissa
6	RLC-161	CVRC 2016	1379 (E) /27.03.2018		570		32.1	Moderately susceptible to <i>Alternaria</i> blight & powdery mildew in natural condition; whereas, resistant to <i>Alternaria</i> blight & bud fly, moderately susceptible to powdery mildew in artificial condition.	Rainfed condition of Jammu, Himachal Pradesh, Punjab & Chhattisgarh

Varieties and Hybrids

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
7	RLC-153 (<i>Utera</i> Alsi -2)	CVRC 2016	1326 (E) /02/04/2019		519		34.8	Highly resistant to rust; moderately resistant to wilt, powdery mildew & bud fly	Assam, Bihar, Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Jharkhand, Maharashtra and Orissa
8	Arpita	2016			1299		35.67	Early maturity (105 days), Omega-3 content (45.10), Iodine Value-165.49, highly resistant to <i>Alternaria</i> blight, resistant to powdery mildew, moderately resistant to bud fly	Orissa, Maharashtra, Madhya Pradesh, Chhattisgarh, Karnataka, Andhra Pradesh
9	JLS 79	2016			1750-1800		38.82	Suitable for Intercropping with pulses, high Omega-3 content moderately resistant to powdery mildew, <i>Alternaria</i> blight and bud fly	Madhya Pradesh
10	RLC-148 (Varsha Alsi)	CVRC 2017	2018:1379 (E) / 27.03.2018		1237		36.81	Suitable for rainfed situation moderately resistant to bud fly, moderately susceptible to wilt and powdery mildew	Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Jharkhand, Maharashtra and Orissa
11	JLS 66	2018			1200-1400		42.85	Suitable for Intercropping with pulses, high Omega-3 content (55.96) moderately resistant to powdery mildew and bud fly, moderately susceptible to <i>Alternaria</i> blight	Madhya Pradesh

Varieties and Hybrids

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
12	JLS 95	2018			1085-1200		38.38	High Omega-3 content (51.87) moderately resistant to <i>Alternaria</i> blight, powdery mildew and bud fly	Bundelkhand part of Uttar Pradesh, Rajasthan, Madhya Pradesh and Central Peninsular India
13	JL 165	2020			1400-1500		33.84	Potential yield 2000 kg and resistant to powdery mildew and bud fly, moderately susceptible to <i>Alternaria</i> blight	Bundelkhand part of Uttar Pradesh, Rajasthan, Madhya Pradesh.
14	RLC-167	CVRC 2020	85 th CVRC Pg No. (9) S.N. 77 Dated 09-11-2020		1297		34.3	Highly resistant to rust; whereas, moderately resistant to <i>Alternaria</i> blight & moderately susceptible to powdery mildew in natural condition; whereas, resistant to rust & <i>Alternaria</i> blight, susceptible to powdery mildew & moderately resistant to bud fly in artificial condition.	Jammu, Himachal Pradesh, Punjab and Chhattisgarh
15	RLC-164	CVRC 2020	85 th CVRC Pg No. 9 SN 76 Dated 09-11-2020		1161		32.6	Moderately resistant to <i>Alternaria</i> blight & moderately susceptible to powdery mildew under artificial conditions, whereas, moderately resistant to <i>Alternaria</i> blight	Jammu, Himachal Pradesh, Punjab and Chhattisgarh

Varieties and Hybrids

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
16	Kota Barani Alsi 5 (RL 29005)	2020	State S.O. 3482 (E) 07.10.2020		1150		36.01	and bud fly in natural condition Early maturity, moderately resistant to <i>Alternaria</i> blight and bud fly	Rajasthan and adjoining area of Madhya Pradesh
17	Kota Alsi 6 (RL 13165)	2020	Central 85 th meeting of CVRC		1277		35.04	Early maturity, moderately resistant to powdery mildew and <i>Alternaria</i> blight	Jharkhand, UP, Bihar, West Bengal and Assam
18	Kota Barani Alsi 6 (RL 15584)	2020	Central 85 th meeting of CVRC		1224		32.06	Medium maturity, moderately resistant to powdery mildew, <i>Alternaria</i> blight and bud fly	Himachal Pradesh (Palampur), Jammu, Punjab (Gurdaspur)
19	BUAT Alsi-4	2020			1261 (Potential upto 2000 kgs)		32	Moderately resistant to <i>Alternaria</i> blight, powdery mildew and bud fly.	Rajasthan, Maharashtra, Madhya Pradesh, Orissa, Karnataka, Chhattisgarh, and Bundelkhand of Uttar Pradesh

26.9 List of Varieties/Hybrids (Sesamum)

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
1	DS-5	2015	S.O.2680(E). 01/10/2015		600-700	90-95			Karnataka
2	PKV-NT-11 (NT-11-91)	2015	S.O.112(E). 12/01/2015		800-850	88-92			Maharashtra (Summer, Vidharbha region)
3	SMARAK (OSC 560)	2015	S.O.268(E). 28/01/2015		800	75-80			Odisha
4	SUBHRA (OSC 207)	2015	S.O.268(E). 28/01/2015		800	75-90			Odisha
5	Gujarat Junagarh Til-5 (GJT 5)	2016	S.O.3540(E). 22/11/2016		900-1000	82-94	48-50	White bold seeded, suitable for export purpose	Gujarat (irrigated conditions)

Varieties and Hybrids

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
6	LT 8 (Punjab Til No. 2)	2016	S.O.3540(E). 22/11/2016		700-800	85-90	48-50	White seeded, bold seeded, Tolerance to <i>Cercospora</i> leaf blight and phyllody	Punjab
7	VRI 3	2018	S.O.1379(E). 27/03/2018		850-950	75-80	50-52	Moderately resistant to <i>Macrophomina</i> and shoot webber cum capsule borer	
8	Suprava (CUMS-17)	2018	S.O.6318(E). 26/12/2018		900-1200	88-92	48-50	Light brown Coloured, days, 1000 seed wt-3.3-3.5 g, resistant to root rot, phyllody and powdery mildew; adaptability under high heat and drought situation	WB, Odisha, Maharashtra, Chhattisgarh, Telangana, TN and Karnataka
9	Tripura Siping Borok	2018	S.O.6318(E). 26/12/2018		1300-1400			Suitable for both summer as well as late kharif, maturity: 83 days, tolerant to Phytophthora blight.	Tripura
10	AMS – 1001	2019	S.O.3220(E). 05/09/2019						
11	Gujarat Til 6 (G.Til 6) (AT 332)	2019	S.O.1498(E). 01/04/2019		900-1000	80-85	49-51	White seed with bolder size, suitable for export	Gujarat
12	RT 372	2019	S.O.3220(E). 05/09/2019	RMT 68XEC 362397	500-700	86-90	48-50	White seed, Mod. resistant to leaf webber, capsule borer (Antigastra), <i>Macrophomica</i> stem and root rot, phyllody and	Gujarat, Haryana, Himachal Pradesh, Karnataka, Maharashtra, Nagaland, Punjab, Rajasthan, Telangana and Uttar Pradesh

Varieties and Hybrids

S. No	Name	Year of notification	Notification No	Pedigree	Yield (kg/ha)	Days to maturity	Oil content (%)	Salient features	Area of Adaptability
13	AST-1 (AAUDR 9304-14-4-1)	2020	S.O.3482 (E). 07/10/2020	Local x ST 1683 Designated as AAUD 9304-14-4-1	750-1040	105 To 72Days		resistant to Alternaria leaf spot and Cercospora leaf spot, shattering resistant Tolerant to lodging, responsive to fertilizer, suitable for upland/high land situation.	Assam
14	SVT-222	2021	S.O.2986(E) 20/07/2021						
15	TR 372	2021	S.O.500(E) 29/01/2021						

27. National Mission on Edible Oils – Oil Palm

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27. National Mission on Edible Oils – Oil Palm

The launch of a new Centrally sponsored scheme namely, National Mission on Edible Oils-Oil Palm (NMEO-OP) from 2021-22 to 2025-26. The National Food Security Mission (Oil Palm) has now been subsumed in NMEO (OP). The new Scheme is applicable for all States/UTs and funding pattern will be in the ratio of 60:40, 90:10 for Rest of India and North Eastern States respectively. The Mission proposes to cover an additional 6.5 lakh hectares under Oil Palm by the year 2025-26. The potential for the states and the targets proposed are given in Table 27.1.

The Government of India for the first time has introduced the concept of a Viability Price of Fresh Fruits Bunches (FFBs) as assured returns to the oil palm farmers. The Viability Price shall be declared by the Department of Agriculture and Farmers Welfare in the month of November each year and this will be 14.3% of the annual average price of CPO of the last 5 years adjusted with Wholesale Price Index (WPI) of all India. The CPO price would be the CPO price for Kandla delivery traded on the Multi Commodity Exchange of India Ltd. (MCX) moderated on a lower side by 1.5%. The Viability Price shall be declared by the Government of India through a duly constituted committee.

Further, for assured payment to the farmers, a concept of formula price for the FFBs shall also be declared. A simplified formula price has been approved for the scheme which will replace the CACP formula of 2012. The formula price for the FFBs would be 14.3% of the CPO price. The formula price will be the average monthly (of the preceding month) landed CPO price multiplied by a multiplication factor of 14.3% as applicable in the case of Viability Price. The formula price would be used only for the calculation of viability gap funding calculation every month.

The industry pays to the farmers for their FFBs produce based on monthly price fixed for FFBs. In the new scheme, if the payment to the farmers by the industry is below the Viability Price, the Government of India will provide a viability gap funding to ensure that the farmers payment reaches the Viability Price. The mechanism of payment by the Government of India and the industry may be seen at Annexure-II. While for the calculation of FP, a constant of 14.3% of CPO has been taken, for the minimum industry payment to the farmers, this will increase gradually. To give impetus to the North East and the A&N Islands, the Government of India will provide a special payment to ensure that the farmers are paid at par with the Rest of India.

It is emphasized that the payment of Viability Gap Payment(VGP) and special NER payment of Government of India will be applicable only if the States adopt the formula of payments of FFBs price of the scheme as given in Annexure-III. The VGP wherever due will be paid through DBT in the farmers account and payment of VGP will be subject to signing of Memorandum of Understanding (MoU) by the States with the Government of India. A sample of the MoU will be shared in due course. The farmers already cultivating oil palm at present along with future oil palm farmers would also be considered for VGP. However I would also like to bring to your notice that the States are at liberty to continue with their own payment system, but in such a case the industry will be mandated to pay the State mandated price and there will be no support of VGP by Government of India in this case.

The Government of India has substantially increased the subsidies for the ongoing components and inputs required for the Oil Palm cultivation, the details of which are at table 27.2. The increased subsidies are effective immediately and also cover the farmers who have already undertaken cultivation.

As a special case, the Ministry of Finance, Government of India has as a special case allowed the setting up of an escrow account for the scheme where both the Government of India and State share of funds may be transferred

27.1 The State-wise Potential Oil Palm Area and targets under NMF O-OP during next 5 years

State	Potential districts	Potential Area(ha)	Covera ge(ha)	Target of oil palm area expansion (ha)					
				2021-22	2022-23	2023-24	2024-25	2025-26	Total
Arunachal Pradesh	Changlang, East Kameng, East Siang, Lohit, lower Dibang Valley, Lower Subansiri, Pampum-Pare, Tawang, Tirap, West Kameng, West Siang (11)	133811	4246	2500	4000	11000	17500	5000	40000
Assam	Cachar, Chirang, Dhemaji, Dibrugarh, Hailakandi, Jorhat, Karimganj, Lakhimpur, N C hills, Tinsukia (10)	375428	2196	1500	2500	86000	100000	10000	200000
Manipur	Bishnupur, Chandel, Churachand pur, Imphal West, Thoubal, Ukhru (6)	66652	0	2500	3500	9000	12000	4000	31000
Mizoram	Aizawl, Champhai, Kolasib, Lawngtlai, Lunglei, Mamit, Saiha Serchhip (8)	66792	26680	2000	3000	10000	10000	2000	27000

NMEO-OP

State	Potential districts	Potential Area(ha)	Covera ge(ha)	Target of oil palm area expansion (ha)					
				2021-22	2022-23	2023-24	2024-25	2025-26	Total
Nagaland	Dimapur, Kiphire, Wokha, Makhokchung, Peren, Tuensang (6)	51297	5172	1500	2000	10000	12500	4000	30000
Andhra Pradesh	East Godavari, Guntur, Krishna, Kurnool, Nellore, Prakasam, Srikakulam, Vishakapatnam, Vizianagaram, West Godavari (10)	531379	184640	15000	20000	24000	25000	28000	112000
Chhattisgarh	Bastar, Bijapur, Bilaspur, Dantewara, JanjgirChampa, Jashpur Kanker, Kawardha, Korba, Mahasanlund, Narayanpur, Raigarh, Raipur, Surguja, Durg (1 5)	57150	5542	500	1500	4300	5000	5100	16400
Gujarat	Amreli, Anand, Bhharuch, Bhavnagar, Dahod, Junagarh, Khera, Narmada, Panchmahal, Rajkot, Surat, Surendranagar, Tapi, Vadodara (14)	62361.	6215	500	1000	3000	4000	4200	127000
Karnataka	Ballary, Relgavi, Bidar, Chikkamagalur u, Dharwad , H assan f4avcri, Kalburgi, Koppal, Mandya, Mysuru, Raichur Shivamogga, Vijayapura, Yadgir (\ û)	72642.	46954	2000	3300	4000	5000	'J000	19300
Odisha	Anugul, Balangir, Baleshwar, Baragarh, Gajapathi, Ganjam, Kalahandi, Kandhamal, Kendujhar, Koraput, Malkangiri, Mayurbhanj, Nabarangapur, Rayagarha, Sambalpur, Subarnapur, Sundargarh (17)	34291	23130	1500	2000	2000	2500	2500	10500

NMEO-OP

State	Potential districts	Potential Area(ha)	Covera ge(ha)	Target of oil palm area expansion (ha)					
				2021-22	2022-23	2023-24	2024-25	2025-26	Total
Tamil Nadu	Ariyalur, Cuddalore, Erode, Kanchipuram, Karur, Madurai Pudukkottai, Ramanathapuram, Sivaganga, Thiruvavarur, Tiruchirapalli, Tiruvallur, Tiruvannamalai, Tuticorin, Villupuram, Virudhunagar, Tanjavur (17)	95719	32,892	1500	2000	5000	5000	5000	18500
Telangana	Adilabad, BhadradiKothapudem, Jagitial, Jangaon, Jayashanka rBhupalapally, Jogulamba Gadwal, Kamareddy, Khammam, Kumarambheemsifabad, Mahabubabad, Mahabubnagar, Mancherial, MedchalMalkajgiri, Nagar Kurnool, Nalgonda, Nirmal, Nizamabad, Peddapalle, RajannaSircilla, Rangareddy, Sangareddy, Siddipet, Suryapet, Vikarabad, Wanaparthy, Warangal, Yadadribhuvanagiri (27)	436325	21382	19000	22000	25000	29300	30000	125300
Goa		2000	970	0	200	200	200	200	800
Kerala	Alappuzha, Ernakulam, Idukki, Kozhikode, Malappuram Palakkad, Pathanamthitta, Thrissur (8)	43676	5888	0	1000	1500	2000	2000	6500

27.2 Mechansim for Payment for the price of FFBs

Oil Year	Formula Price	Minimum Payment schedule by Industry to farmers (as % of CPO)		Difference to be paid by Gol to the farmers*	
	(as % of CPO)	Rest of India	North East states& A&N Islands	Difference to be paid by GOI in North East states&(A&N) Islands for parity with ROI	Payment of VGP by GOI to farmers as (Viability price-Formula price)
1st Nov 21 to 31st Oct 28	14.3%	14.30	12.30	14.30-12.30=2%	(Viability price-Formula price) x 100%
1st Nov 28 to 31st Oct 31	14.3%	14.55	13.05	14.55-13.05=1.5%	(Viability price-Formula price) x 75%
1st Nov 31 to 31st Oct 34	14.3%	14.80	13.80	14.80-13.80=1.0%	(Viability price-Formula price) x 50%
1st Nov 34 to 31st Oct 37	14.3%	15.05	14.55	15.05-14.55=0.5%	(Viability price-Formula price) x 25%
1st Nov 37 onwards	14.3%	15.30	15.30	15.30-15.30=0%	0

27.3 Increased subsidies under NMEO (OP) for Oil palm Cultivation

S.No	Sub Components	Sharing Pattern	Increased Assistance						
1	Planting Material	60:40(ROI) 90:10(NER)	For purchasing of planting material, during 1 st year, Rs.20,000/ha indigenous & Rs.29,000/ha imported (including transport cost) will be provided for entire land holding.						
2	Management upto gestation period (4 yrs.)	60:40(ROI) 90:10(NER)	During gestation period for 4 Years, Rs.42,000/ha will be provided to farmers in General Stated & Rs.50,000/ha for NE States and Andaman & Nicobar Islands for inter-cropping and maintenance cost.						
3	Inputs for intercropping	60:40(ROI) 90:10(NER)							
4	Establishment of Seed Gardens	60:40(ROI) 90:10(NER)	One time assistance as subsidy for necessary infrastructure & setting up of new seed garden (capacity 10.00 lakh seedlings per year) having atleast 15 ha area will be provided as per table given below: <table border="1" data-bbox="738 1872 1385 2027"> <thead> <tr> <th>Crop</th> <th>One time grant (Rs/garden)</th> <th>Revolving fund</th> </tr> </thead> <tbody> <tr> <td>Oil palm</td> <td>Rs. 40.00 lakh for ROI and Rs.</td> <td>Rs. 40.00 lakh for ROI and Rs.</td> </tr> </tbody> </table>	Crop	One time grant (Rs/garden)	Revolving fund	Oil palm	Rs. 40.00 lakh for ROI and Rs.	Rs. 40.00 lakh for ROI and Rs.
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				50.00 lakh for NE states and Andaman & Nicobar Islands	50.00 lakh for NE states and Andaman & Nicobar Islands														
5	Establishment of Nursery	60:40(ROI) 90:10(NER)	For Nursery Rs. 40.00 lakhs /nursery of 10.00 ha with 1.00 lakh seedling capacity for general states and Rs. 50.00 lakh for NE states.																
6	Drip Irrigation	60:40(ROI) 90:10(NER)	As per PMKSY norms																
7	Borewell/Pump set/water harvesting structure/ Vermicompost unit	60:40(ROI) 90:10(NER)	As per MIDH guidelines Solar pumps: As per PM-KUSSUM norms																
8	Harvesting Tools	60:40(ROI) 90:10(NER)	Assistance as under																
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9	Custom hiring cum Harvester Groups	60:40(ROI) 90:10(NER)	<p>Custom hiring center cum FFBs harvester group by processors/ State/ SHGs/ FPOs/ Registered societies will be created in each state.</p> <p>One time grant for Rs. 25.00 lakh per unit for equipment, tools, training, contingencies, maintenance etc</p>																
10	Farmers & Officers training	60:40(ROI) 90:10(NER)	<p>Farmers Training: Rs. 30,000/- per training for a batch of 30 farmers for 2 days (@500/- per participant per day)</p> <ul style="list-style-type: none"> • Input dealers included • Officers training Rs. 40,000/- per training for a batch of 20 officers for 2 days (@1000/- per participant per day) 																
11	Replanting of old oil palm garden	60:40(ROI) 90:10(NER)	<p>New Component</p> <p>After 27-30 years of age one time grant 50% of the cost @ Rs. 250/- per plant (uprooting, replacing and digging of new pit) will be provided for replanting of old gardens. State holders: State/processors</p>																

12	Flexi fund	60:40(ROI) 90:10(NER)	10% as flexi-fund to provide flexibility to States to meet local needs and requirement within the overall objective of oil palm promotion
13	Programme Management Expenses	60:40(ROI) 90:10(NER)	Implementing States/ agencies/ enterprises will be allowed to utilize 3% of their total allocation for contingency expenditure towards monitoring & evaluation. Operational Costs, Consultancy, Publicity/ Exposure visits (inter and intra state) of farmers and / or officers/ Seminar/ Conference/ Workshop/ Meeting/ Tilhan Mela/ engage state level consultants/ supporting staff on contractual basis. Hiring of vehicles/ Monitoring of scheme/ Purchase of vehicles will not be allowed. No permanent post will be created. Concurrent/ Final evaluation by an independent agency.
14	Oil Palm processing Mills	-	For NE states and Andaman & Nicobar Islands 50% of the cost limited to 500.00 lakh for a unit of 5.00 MT/Hr for new Palm Mill with pro tata increase
15	Special Package for NE states and Andaman & Nicobar Islands	90:10(NER)	50% of the actual cost and 20% of total outlay on Oil Palm for roads from field to nearest FFB collection/ processing center. New Components i) Assistance of clearance of land/ waste lands before oil palm plantation (Rs. 3000/- per ha) ii) Half-moon terrace (Rs. 4000/-per ha) iii) Bio fencing with bamboo and other means in oil palm field by way of 11 suitable fencing (Rs. 4000/-per ha) iv) Integrated farming system @ Rs. 10000 for back yard poultry, animal, fodders, kitchen gardening etc.
16	R & D and Center of Excellence	100%	Need based/ Time bound, target oriented/ research project will be funded to bring break through yield improvement of oil palm including Mela, seminar, workshop, exhibitions etc.

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