

Annex Table 1.1: Area under Cultivation of Sugarcane in Major States

('000 ha)

Year	Andhra Pradesh	Assam	Bihar	Chhattisgarh	Gujarat	Haryana	Karnataka	Madhya Pradesh	Maharashtra	Punjab	Tamil Nadu	Telangana	Uttar Pradesh	Uttarakhand	West Bengal	Others	All India
2001-02	218.0	27.2	113.4	3.5	175.8	161.0	407.0	41.6	578.0	142.0	321.0	NA	2035.0	125.9	23.3	38.9	4411.6
2002-03	232.5	26.0	107.3	4.0	202.9	189.0	382.7	39.2	573.0	154.0	261.4	NA	2149.0	134.4	19.5	45.4	4520.3
2003-04	209.0	25.0	103.6	5.1	176.4	160.0	243.3	43.3	443.0	123.0	192.1	NA	2030.1	128.0	16.9	39.6	3938.4
2004-05	210.0	23.9	104.2	6.3	196.7	130.0	178.0	52.5	324.0	86.0	232.0	NA	1954.7	107.0	15.6	40.6	3661.5
2005-06	230.0	23.4	101.3	6.4	197.0	127.0	219.0	55.5	501.0	84.0	335.4	NA	2155.8	101.0	15.0	49.9	4201.7
2006-07	264.0	27.0	129.6	7.2	214.0	140.0	326.0	64.3	1049.0	99.0	391.2	NA	2246.5	121.0	16.6	55.4	5150.8
2007-08	247.0	26.0	108.6	11.1	211.0	140.0	306.0	75.2	1093.0	110.0	354.2	NA	2179.0	124.0	16.9	53.2	5055.2
2008-09	196.0	28.6	111.9	10.6	221.0	90.0	281.0	70.5	768.0	81.0	308.9	NA	2084.0	107.0	17.6	39.3	4415.4
2009-10	158.0	27.1	115.9	12.4	154.0	74.0	337.0	62.1	756.0	60.0	293.2	NA	1977.0	96.0	13.8	38.1	4174.6
2010-11	152.0	29.7	248.0	8.3	190.0	85.0	423.0	65.1	965.0	70.0	316.0	40.0	2125.0	106.7	15.0	46.0	4884.8
2011-12	159.0	25.7	218.3	9.1	202.0	95.0	430.0	69.2	1022.0	80.0	346.4	45.0	2162.0	108.0	16.1	49.9	5037.7
2012-13	155.0	28.9	250.3	13.5	176.0	101.0	425.0	59.5	933.0	83.0	347.2	41.0	2212.0	109.9	16.1	47.5	4998.9
2013-14	153.0	29.1	258.1	8.5	174.0	102.0	420.0	73.1	937.0	89.0	313.3	39.0	2228.0	104.3	17.0	48.0	4993.3
2014-15	139.0	29.9	254.3	18.5	208.0	97.0	480.0	111.0	1030.0	94.0	263.1	38.0	2140.8	101.7	17.7	43.7	5066.8
2015-16	122.0	29.5	244.0	35.5	157.0	93.0	450.0	103.0	987.0	90.0	252.3	35.0	2169.0	96.9	17.4	45.6	4927.1
2016-17	103.0	31.4	239.6	20.8	169.0	102.0	397.0	92.0	633.3	88.0	218.3	29.0	2160.0	93.0	21.0	38.4	4435.7
2017-18	99.0	30.6	233.8	24.1	182.0	114.0	370.3	98.0	902.0	96.0	171.9	35.0	2234.0	90.0	19.2	37.3	4737.1
2018-19	102.0	31.2	225.6	32.8	154.8	108.7	471.2	108.0	1162.8	95.0	166.4	40.0	2224.0	91.0	15.8	31.9	5061.1
2019-20	86.0	29.7	223.9	35.2	160.9	96.3	429.0	125.0	822.4	91.0	131.2	26.0	2208.0	92.0	19.2	26.9	4602.7
2020-21*	55.0	30.0	219.0	31.5	215.1	99.0	433.0	110.0	1132.8	89.3	124.6	20.0	2168.5	84.0	18.8	26.2	4856.8
2021-22**	50.0	30.0	222.8	32.7	182.0	112.0	539.0	106.0	1232.0	91.0	100.8	30.0	2210.0	91.0	19.5	24.9	5073.8

*: Fourth Advance Estimates; **: First Advance Estimates

Source: Directorate of Economics & Statistics, Ministry of Agriculture & Farmers Welfare

Annex Tables

Annex Table 1.2: Production of Sugarcane in Major States

('000 tonnes)

Year	Andhra Pradesh	Assam	Bihar	Chhattisgarh	Gujarat	Haryana	Karnataka	Madhya Pradesh	Maharashtra	Punjab	Tamil Nadu	Telangana	Uttar Pradesh	Uttarakhand	West Bengal	Others	All-India
2001-02	18082	1011	5211	9	12465	9270	33017	1616	45140	9250	32620	NA	117982	7555	1983	1996	297208
2002-03	15387	916	4521	10	14071	10650	32485	1563	42617	9290	24165	NA	120948	7332	1281	2147	287383
2003-04	15070	981	4286	13	12669	9280	16015	1874	25668	6620	17656	NA	112754	7651	1253	2072	233862
2004-05	15739	884	4112	16	14570	8060	14276	2148	20475	5170	23396	NA	118716	6441	1033	2053	237088
2005-06	17656	871	4338	16	14580	8180	18267	2425	38853	4860	35107	NA	125470	6134	1248	3167	281172
2006-07	21692	1055	5956	19	15630	9580	28670	2806	78568	6020	41124	NA	133949	6100	1267	3085	355520
2007-08	20296	980	3855	28	15190	8860	26240	3180	88437	6690	38071	NA	124665	7686	1272	2738	348188
2008-09	15380	1100	4960	25	15510	5130	23328	2975	60648	4670	32804	NA	109048	5590	1638	2223	285029
2009-10	11708	1059	5033	29	12400	5335	30443	2535	64159	3700	29746	NA	117140	5842	1001	2170	292300
2010-11	11893	1075	12764	22	13760	6042	39657	2667	81896	4170	34252	3071	120545	6498	1134	2937	342382
2011-12	12842	993	11289	24	12750	6959	38808	2677	86733	5653	38576	3843	128819	6311	1681	3077	361036
2012-13	11993	1028	12741	37	12690	7437	35732	2642	69648	5919	33919	3574	132428	6785	1617	3009	341200
2013-14	12009	1075	12882	22	12550	7499	37905	3174	76901	6675	32454	3376	134689	5940	1945	3047	352142
2014-15	9987	1099	14034	49	14330	7169	43776	4567	84699	7039	28093	3343	133061	6165	2106	2815	362333
2015-16	9353	1038	12649	68	11120	6692	37834	5281	73680	6607	25494	2405	145385	5886	2075	2882	348448
2016-17	7830	1207	13036	848	11950	8223	27378	4730	52262	7152	18988	2061	140169	6477	1550	2208	306069
2017-18	7790	1143	13825	1158	12072	9633	31135	5430	82984	8024	17154	2604	177033	6271	1437	2211	379905
2018-19	8095	1094	20116	1452	11326	8505	42408	5282	89768	7774	17140	3184	179715	6329	1335	1893	405416
2019-20	6724	1218	13579	1759	11570	7730	38181	7434	69312	7302	14119	2013	179539	6938	1528	1555	370500
2020-21*	4119	1133	10714	1750	15414	8532	41648	5880	101157	7485	12800	1358	177233	6964	1561	1507	399253
2021-22**	3888	1137	14762	1872	12824	9068	48510	5674	110880	7460	10379	2103	180115	7544	1658	1379	419252

*: Fourth Advance Estimates; **: First Advance Estimates

Source: Directorate of Economics & Statistics, Ministry of Agriculture & Farmers Welfare

Annex Table 1.4: Production of Sugar in Major States, 2001-02 -2021-22

(Lakh Tonnes)

State	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22*
Bihar	3.4	4.2	2.8	2.6	4.1	4.8	3.4	2.2	2.6	3.9	4.5	5.1	6.0	5.3	5.0	5.3	7.2	8.4	7.2	4.6	6.1
Haryana	6.2	6.0	5.9	3.8	3.8	6.8	6.0	2.3	2.5	3.9	4.9	5.1	5.4	5.7	5.4	6.7	7.3	6.8	7.4	7.7	7.6
Punjab	5.9	5.1	3.9	3.2	3.8	5.5	5.3	2.4	1.8	3.0	3.9	4.4	4.7	5.4	6.7	6.6	8.2	7.9	5.4	5.5	5.4
Uttarakhand	4.4	4.6	3.9	3.2	4.1	5.3	4.0	2.2	2.9	3.1	3.3	3.4	3.0	3.3	2.7	3.5	4.5	3.9	4.6	4.1	3.9
Uttar Pradesh	52.6	58.7	46.1	49.0	54.6	83.5	73.2	41.5	51.7	57.6	69.6	75.0	66.1	71.4	68.5	87.7	120.5	118.6	128.7	110.6	101.0
Andhra Pradesh	10.5	11.9	8.8	11.5	12.5	19.2	13.4	5.9	5.1	10.1	11.4	9.8	6.8	5.7	5.5	3.9	4.6	4.9	2.9	2.0	2.1
Telangana													3.3	3.2	2.8	1.2	2.7	2.6	1.4	1.2	2.0
Gujarat	10.6	12.4	10.8	7.9	12.2	13.9	13.7	10.2	11.9	12.7	10.0	11.3	11.8	11.5	11.2	8.8	11.1	13.7	9.3	10.5	10.5
Maharashtra	55.9	61.6	32.0	21.9	51.7	90.1	90.8	46.0	70.4	90.7	90.0	79.9	77.2	105.2	84.7	42.0	107.1	107.2	61.8	106.4	109.0
Karnataka	15.5	18.0	11.6	10.8	19.7	25.4	28.4	16.8	25.1	36.4	38.7	34.4	41.6	49.9	40.5	21.4	36.9	44.3	33.8	42.9	43.3
Tamil Nadu	18.4	17.0	11.9	14.0	21.0	24.2	21.4	16.0	12.7	18.4	23.8	19.3	14.2	12.6	13.7	10.5	5.5	7.2	7.3	8.8	10.0
Others	1.6	1.8	2.0	2.1	2.1	3.2	3.5	1.2	1.3	3.7	3.3	4.1	5.4	5.7	4.6	4.8	6.5	5.8	4.9	5.7	7.1
All India	185.0	201.3	139.6	130.0	189.6	282.0	263.0	146.8	188.0	243.5	263.4	251.8	245.5	284.6	251.2	202.3	322.0	331.3	274.6	310.01	308.0

Note: *Estimated Sugar Production figures are taken after discounting the 35 Lakh Tonnes of sugar to be diverted for ethanol production. Sugar production year refers to sugar season (i.e. 1st October to 30th September)

Source: Department of Food & Public Distribution, Ministry of Consumer Affairs, Food & Public Distribution

Annex Table 2.5: Weighted Ex-Mill Prices of Sugar in Major Sugar Producing States

₹/Qtl)

State	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Andhra Pradesh	2668	2915	3088	2890	2460	3127	3658	3162	3191	3310	3260
Gujarat	2673	2951	3065	2843	2404	3064	3615	3196	3119	3314	3252
Karnataka	2572	2849	2978	2733	2318	3035	3516	3068	3080	3270	3250
Maharashtra	2593	2860	2989	2760	2340	3045	3515	3045	3067	3256	3155
Punjab	2658	2890	3138	3037	2575	3195	3688	3274	3190	3363	3247
Tamil Nadu	2647	2891	3046	2872	2454	3183	3623	3293	3233	3405	3290
Uttar Pradesh	2807	3076	3203	3110	2578	3207	3649	3246	3183	3361	3166

Source: Directorate of Sugar & Vegetable Oils, Ministry of Consumer Affairs, Food & Public Distribution

Annex Table 2.7: State-wise Effective SAP

State	Uttar Pradesh			Punjab			Haryana			Uttarakhand		
	Early Variety	Mid Variety	Late Variety	Early Variety	Mid Variety	Late Variety	Early Variety	Mid Variety	Late Variety	Early Variety	Mid Variety	Late Variety
2010-11	210	205	200	200	195	190	220	215	210	215	210	310
2011-12	250	240	235	230	225	220	231	226	221	255	250	295
2012-13	290	280	275	250	240	235	276	271	266	295	285	310
2013-14	290	280	275	290	280	275	301	295	290	295	285	295
2014-15	290	280	275	295	285	280	310	305	300	290	280	310
2015-16	290	280	275	295	285	280	310	305	300	290	280	295
2016-17	315	305	300	300	290	285	320	315	310	317	307	310
2017-18	325	315	310	310	300	295	330	325	320	326	316	295
2018-19	325	315	310	310	300	295	340	335	335	327	317	310
2019-20	325	315	310	310	300	295	340	335	335	327	317	295
2020-21	325	315	310	310	300	295	350	345	345	327	317	310
2021-22	350	340	335	360	350	345	362	355	355	-	-	295

Source: Directorate of Sugar & Vegetable Oils, Ministry of Consumer Affairs, Food & Public Distribution

Annex Tables

Annex Table 2.8: Sugar Recovery in Major States of India

(Percent)

State/Year	AP	BR	GJ	HR	KR	MH	PJ	TN	TG	UP	UK	All India
1999-00	10.09	9.2	10.61	9.27	10.65	11.39	9.1	9.2		9.34		10.2
2000-01	10.36	9.11	10.42	9.8	10.75	11.63	9.7	9.64		9.71		10.48
2001-02	10.01	8.82	10.79	9.95	10.72	11.6	9.45	9.61		9.53	9.42	10.27
2002-03	10.15	9.05	10.58	10.13	10.8	11.68	9.72	9.87		9.54	9.47	10.38
2003-04	10.32	9.33	10.93	10.47	10.21	10.93	9.72	9.92		9.82	9.75	10.22
2004-05	10.65	9.58	10.76	10.16	10.11	11.39	9.79	9.64		9.79	9.63	10.17
2005-06	10.05	9.48	10.82	9.78	10.83	11.66	9.19	9.24		9.49	9.42	10.22
2006-07	9.69	8.67	10.68	9.74	10.69	11.39	9.54	9.31		9.49	9.54	10.16
2007-08	10.1	9.2	10.9	9.9	10.1	11.8	9.3	9.3		9.3	9.8	10.3
2008-09	9.88	9.3	9.5	9.05	10.3	11.52	9.33	9.56		8.91	9.2	10.05
2009-10	9.28	9.49	10.52	9.37	10.67	11.51	8.59	8.94		9.13	9.19	10.2
2010-11	9.77	9.3	9.99	9.02	10.92	11.3	8.8	9.1		9.15	9.34	10.17
2011-12	9.8	9.1	10.61	9.07	11.18	11.67	9.12	9.35		9.08	9.1	10.26
2012-13	9.65	8.91	10.77	9.76	10.42	11.45	9.09	8.88		9.17	9.19	10.01
2013-14	9.77	9.4	11.11	9.4	10.98	11.24	9.4	9	10.53	9.44	9.23	10.25
2014-15	9.72	9.1	10.48	9.89	10.9	11.67	9.37	8.1	10.47	9.49	9.15	10.44
2015-16	9.31	9.69	10.37	9.39	10.59	11.19	10.01	8.47	10.83	10.51	9.52	10.47
2016-17	9.34	9.08	10.56	10.19	10.28	11.19	9.34	9.08	10.33	10.26	8.2	10.25
2017-18	9.43	9.54	10.51	10.46	10.57	11.09	9.74	8.5	10.84	10.73	10.18	10.64
2018-19	9.33	10.35	10.65	10.31	10.25	10.07	10.1	8.9	10.21	10.91	10.91	10.37
2019-20	8.97	10.71	10.75	10.55	9.88	11.29	9.58	8.58	10.17	11.37	11.21	10.88
2020-21	8.95	10.03	10.23	10.24	9.74	10.49	9.03	8.96	10.31	10.76	10.87	10.37

Source: Directorate of Sugar & Vegetable Oils, Ministry of Consumer Affairs, Food & Public Distribution

Annex Tables

Annex Table 5.5: State-wise and all-India Projected Cost of Production (CoP) of Sugarcane for Crop Year 2021-22 and 2022-23 at State-Specific Recovery Rate

States	CoP at State-Specific Recovery Rate during Crop Year 2021-22 (₹/qtl)			CoP at State-Specific Recovery Rate during Crop Year 2022-23 (₹/qtl)			Percentage Change in CoP during Crop Year 2022-23 over 2021-22		
	A ₂	A ₂ +FL	C ₂	A ₂	A ₂ +FL	C ₂	A ₂	A ₂ +FL	C ₂
Andhra Pradesh	177	199	286	190	209	302	7.3	5.0	5.6
Bihar	116	123	180	121	129	197	4.3	4.9	9.4
Gujarat	NP	NP	NP	129	138	187	-	-	-
Haryana	82	91	190	81	94	211	-1.2	3.3	11.1
Karnataka	110	134	194	100	121	180	-9.1	-9.7	-7.2
Maharashtra	153	179	234	160	187	246	4.6	4.5	5.1
Punjab	NP	NP	NP	100	123	236	-	-	-
Tamil Nadu	163	192	258	172	201	278	5.5	4.7	7.8
Uttar Pradesh	142	170	254	151	175	260	6.3	2.9	2.4
Uttarakhand	101	133	231	100	138	239	-1.0	3.8	3.5
All-India Weighted Average	139	165	239	144	167	243	3.6	1.2	1.7

Note: All-India is weighted average of projected States at State-specific recovery rate

NP: Not Projected

Source: CACP Calculations using CS data

Annex Table 5.9: Comparison of CACP and State Projected Cost of Production (C_2) at State Specific Recovery Rate and suggested Fair and Remunerative Price by State of Sugarcane for Crop Season 2022-23

State	CACP Projections on the basis of CS data		State Projections		Suggested Fair and Remunerative Price (FRP) by State (₹/qtl)
	Yield (qtl/ha)	Cost of Production (₹/qtl)	Yield (qtl/ha)	Cost of Production (₹/qtl)	
Andhra Pradesh	786.98	302	750.00	285	No Suggestion
Bihar	574.35	197	402.50	667	No Suggestion
Gujarat	755.91	187	800.00	295	No Suggestion
Haryana	801.62	211	862.00	309	No Quantitative Suggestion
Karnataka	831.70	180	Estimates not provided	Estimates not provided	No Suggestion
Maharashtra	880.30	246	970.00	NA	No Suggestion
Punjab	819.72	236	821.00	372	No Suggestion
Tamil Nadu	910.19	278	978.00	277	No Suggestion
Uttar Pradesh	573.75	260	775.00	310	No Suggestion
Uttarakhand	538.32	239	829.00	235	355

Note : CoP C_2 of Bihar has been derived by using CoC C_2 , yield from State reply and MP ratio from CS
Source: CACP Calculations using CS data and State Governments