



Final report of 2015/2016 harvest season

South-Central region

Table 1. 2015/2016 sugarcane harvest in South-Central Brazil - final numbers
Comparison with 2014/2015 crop year

Products	Crop year			
	2014/2015	2015/2016	Var. (%)	
Sugarcane ¹	573,145	617,709	↑ 7.78%	
Sugar ¹	32,011	31,221	↓ -2.47%	
Anhydrous ethanol ²	10,740	10,643	↓ -0.90%	
Hydrous ethanol ²	15,492	17,581	↑ 13.49%	
Total ethanol ²	26,232	28,225	↑ 7.60%	
ATR ¹	78,204	80,614	↑ 3.08%	
ATR/ ton of sugarcane ³	136.45	130.51	↓ -4.35%	
Share (%)	sugar	42.96%	40.65%	↓
	ethanol	57.04%	59.35%	↑
Liters of ethanol/ ton of sugarcane	45.77	45.69	↓ -0.17%	
Kilograms of sugar/ ton of sugarcane	55.85	50.54	↓ -9.50%	

Source: UNICA. Note: ¹ - thousand tons; ² - million liters; ³ - kg of ATR/ ton of sugarcane; To calculate the " ATR product" effect, it was excluded from the production of corn ethanol , specified in Table 20 .

Table 2. Sugarcane harvest per State of South-Central region

State	Sugarcane ¹		Sugar ¹		Total ethanol ²		Anhydrous ethanol ²		Hydrous ethanol ²	
	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016
ES	3,242,981	2,809,562	107,294	70,952	167,263	150,600	115,516	88,972	51,747	61,628
GO	66,750,307	73,521,677	1,997,115	1,892,232	4,211,278	4,688,856	1,260,074	1,313,789	2,951,204	3,375,067
MT	17,011,941	17,150,551	405,277	337,162	1,168,840	1,325,870	498,455	508,214	670,385	817,656
MS	44,683,982	47,816,602	1,390,695	1,301,563	2,506,815	2,776,972	613,621	645,725	1,893,194	2,131,247
MG	59,336,925	64,853,319	3,268,717	3,245,184	2,726,335	3,069,407	1,248,310	1,059,364	1,478,025	2,010,043
PR	43,472,001	42,107,627	2,926,764	2,806,939	1,634,729	1,573,243	549,700	600,970	1,085,029	972,273
RJ	1,586,425	1,066,157	37,434	0	89,209	58,652	0	0	89,209	58,652
RS	73,408	61,238	0	0	4,399	3,786	0	0	4,399	3,786
SP	336,987,027	368,322,649	21,877,419	21,567,455	13,722,772	14,576,624	6,453,833	6,425,674	7,268,939	8,150,950
TOTAL	573,144,997	617,709,382	32,010,715	31,221,487	26,231,640	28,224,010	10,739,509	10,642,708	15,492,131	17,581,302

State	Kg TRS/ton of sugarcane		Kg of sugar/ton of sugarcane		Liters of ethanol/ ton of sugarcane		Sugar mix (%)		Ethanol mix (%)	
	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016
ES	123.77	118.66	33.08	25.25	51.58	53.60	28.05%	22.34%	71.95%	77.66%
GO	138.53	135.21	29.92	25.74	63.09	63.78	22.67%	19.98%	77.33%	80.02%
MT	133.89	138.50	23.82	19.66	68.71	77.31	18.67%	14.90%	81.33%	85.10%
MS	127.70	126.89	31.12	27.22	56.10	58.08	25.58%	22.51%	74.42%	77.49%
MG	136.36	133.04	55.09	50.04	45.95	47.33	42.40%	39.47%	57.60%	60.53%
PR	134.61	133.63	67.33	66.66	37.60	37.36	52.49%	52.36%	47.51%	47.64%
RJ	119.02	92.21	23.60	0.00	56.23	55.01	20.81%	0.00%	79.19%	0.00%
RS	100.44	103.62	0.00	0.00	59.93	61.82	0.00%	0.00%	0%	0%
SP	137.79	129.06	64.92	58.56	40.72	39.58	49.45%	47.62%	50.55%	52.38%
TOTAL	136.45	130.50	55.85	50.54	45.77	45.69	42.96%	40.65%	57.04%	59.35%

Source: UNICA. Note: ¹ - thousand tons; ² - million liters; ³ - kg of TRS/ton. of sugarcane. "ATR" index was calculated excluding corn ethanol production, in the South Central region and the state of Mato Grosso do Sul.

Table 3. Sugarcane harvest by autonomous distilleries and mixed production mills in South-Central region

Mills	2014/2015	2015/2016
Mixed production mills		
Sugarcane ¹	476,098	505,757
Sugar ¹	32,011	31,221
Anhydrous ethanol ²	8,164	8,194
Hydrous ethanol ²	10,143	11,036
Total ethanol ²	18,307	19,230
Distilleries		
Sugarcane ¹	97,047	111,952
Sugar ¹	0	0
Anhydrous ethanol ²	2,576	2,449
Hydrous ethanol ²	5,349	6,546
Total ethanol ²	7,925	8,994

Source: UNICA. Note: ¹ - thousand tons; ² - million liters; autonomous distilleries are plants dedicated exclusively to ethanol production; mixed production mills are dedicated to producing both ethanol and sugar.

Table 4. Bi-weekly sugarcane crushing, ACCUMULATED - results for the South-Central region

Bi-weekly period	SUGARCANE (tons)								
	São Paulo State			South-Central region			Others states		
	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)
16/04	7,986,588	6,260,159	-22%	12,668,550	13,045,798	3%	4,681,962	6,785,639	45%
01/05	23,489,459	22,419,779	-5%	36,618,568	40,163,462	10%	13,129,109	17,743,683	35%
16/05	48,003,349	38,729,132	-19%	75,553,503	68,834,754	-9%	27,550,154	30,105,622	9%
01/06	71,999,100	63,333,390	-12%	113,556,378	109,360,654	-4%	41,557,278	46,027,264	11%
16/06	98,856,527	86,683,264	-12%	155,088,269	149,018,051	-4%	56,231,742	62,334,787	11%
01/07	125,884,352	114,893,242	-9%	199,231,883	195,794,905	-2%	73,347,531	80,901,663	10%
16/07	151,419,962	131,529,555	-13%	240,630,700	225,197,229	-6%	89,210,738	93,667,674	5%
01/08	173,917,950	161,868,401	-7%	276,625,639	274,865,024	-1%	102,707,689	112,996,623	10%
16/08	200,737,279	190,265,519	-5%	321,487,296	322,673,330	0%	120,750,017	132,407,811	10%
01/09	228,653,715	218,569,400	-4%	368,933,756	370,154,202	0%	140,280,041	151,584,802	8%
16/09	252,339,446	234,227,156	-7%	408,867,398	399,846,191	-2%	156,527,952	165,619,035	6%
01/10	267,942,728	258,595,112	-3%	437,683,734	440,495,574	1%	169,741,006	181,900,462	7%
16/10	290,894,761	281,571,462	-3%	477,092,830	476,812,027	0%	186,198,069	195,240,565	5%
01/11	310,500,284	304,688,167	-2%	511,561,519	515,461,995	1%	201,061,235	210,773,828	5%
16/11	322,637,019	319,425,082	-1%	534,698,573	541,164,156	1%	212,061,554	221,739,074	5%
01/12	329,630,274	331,070,914	0%	550,464,563	560,006,355	2%	220,834,289	228,935,441	4%
16/12	333,350,954	343,518,973	3%	560,627,231	577,999,118	3%	227,276,277	234,480,145	3%
01/01	334,736,677	350,797,650	5%	564,314,314	588,559,666	4%	229,577,637	237,762,016	4%
16/01	335,153,558	352,152,420	5%	565,533,360	590,444,376	4%	230,379,802	238,291,956	3%
01/02	335,310,150	354,346,982	6%	566,354,486	594,486,990	5%	231,044,336	240,140,008	4%
16/02	335,404,901	355,974,301	6%	566,818,561	597,260,437	5%	231,413,660	241,286,136	4%
01/03	335,404,901	356,472,118	6%	567,018,402	598,313,888	6%	231,613,501	241,841,770	4%
16/03	335,412,911	359,197,097	7%	567,311,017	603,615,148	6%	231,898,106	244,418,051	5%
01/04	336,987,027	368,322,631	9%	573,144,997	617,709,382	8%	236,157,970	249,386,751	6%

Source: UNICA.

Table 5. Bi-weekly sugar production, ACCUMULATED - results for the South-Central region

Bi-weekly period	SUGAR (tons)								
	São Paulo State			South-Central region			Others states		
	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)
16/04	300,921	197,449	-34%	421,415	395,716	-6%	120,494	198,267	65%
01/05	990,833	918,009	-7%	1,361,801	1,448,957	6%	370,968	530,948	43%
16/05	2,385,444	1,728,794	-28%	3,273,939	2,672,044	-18%	888,495	943,250	6%
01/06	3,864,958	3,132,291	-19%	5,297,772	4,647,586	-12%	1,432,814	1,515,295	6%
16/06	5,596,454	4,494,279	-20%	7,618,432	6,624,672	-13%	2,021,978	2,130,393	5%
01/07	7,429,800	6,256,168	-16%	10,203,345	9,154,973	-10%	2,773,545	2,898,805	5%
16/07	9,238,517	7,261,288	-21%	12,752,198	10,606,497	-17%	3,513,681	3,345,209	-5%
01/08	10,837,513	9,265,890	-15%	14,990,421	13,411,916	-11%	4,152,908	4,146,026	0%
16/08	12,780,033	11,249,414	-12%	17,788,256	16,294,754	-8%	5,008,223	5,045,340	1%
01/09	14,840,548	13,214,513	-11%	20,806,418	19,145,208	-8%	5,965,870	5,930,695	-1%
16/09	16,552,898	14,276,914	-14%	23,308,519	20,816,955	-11%	6,755,621	6,540,041	-3%
01/10	17,574,727	15,933,575	-9%	24,943,795	23,212,836	-7%	7,369,068	7,279,261	-1%
16/10	19,153,429	17,482,910	-9%	27,307,782	25,312,059	-7%	8,154,353	7,829,149	-4%
01/11	20,469,604	18,990,278	-7%	29,348,677	27,492,102	-6%	8,879,073	8,501,824	-4%
16/11	21,191,804	19,796,746	-7%	30,542,548	28,694,726	-6%	9,350,744	8,897,980	-5%
01/12	21,606,250	20,308,313	-6%	31,301,375	29,401,488	-6%	9,695,125	9,093,175	-6%
16/12	21,751,935	20,793,636	-4%	31,684,557	30,045,901	-5%	9,932,622	9,252,265	-7%
01/01	21,810,129	21,063,804	-3%	31,807,958	30,433,577	-4%	9,997,829	9,369,773	-6%
16/01	21,816,837	21,087,448	-3%	31,822,502	30,460,039	-4%	10,005,665	9,372,591	-6%
01/02	21,819,671	21,144,327	-3%	31,836,024	30,553,631	-4%	10,016,353	9,409,304	-6%
16/02	21,822,156	21,176,946	-3%	31,840,758	30,603,365	-4%	10,018,602	9,426,419	-6%
01/03	21,822,156	21,185,768	-3%	31,842,274	30,616,308	-4%	10,020,118	9,430,540	-6%
16/03	21,822,172	21,258,576	-3%	31,844,856	30,756,836	-3%	10,022,684	9,498,260	-5%
01/04	21,877,419	21,567,455	-1%	32,010,715	31,221,487	-2%	10,133,296	9,654,032	-5%

Source: UNICA.

Table 6. Bi-weekly ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	TOTAL ETHANOL (m ³)								
	São Paulo State			South-Central region			Others states		
	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)
16/04	298,541	232,868	-22%	513,939	569,955	11%	215,398	337,087	56%
01/05	888,618	844,494	-5%	1,486,622	1,710,335	15%	598,004	865,841	45%
16/05	1,802,354	1,481,747	-18%	3,084,948	2,954,354	-4%	1,282,594	1,472,607	15%
01/06	2,707,174	2,431,351	-10%	4,685,230	4,701,214	0%	1,978,056	2,269,863	15%
16/06	3,697,455	3,280,118	-11%	6,415,005	6,372,638	-1%	2,717,550	3,092,520	14%
01/07	4,724,656	4,343,530	-8%	8,302,992	8,383,488	1%	3,578,336	4,039,958	13%
16/07	5,711,700	5,006,163	-12%	10,115,036	9,777,167	-3%	4,403,336	4,771,004	8%
01/08	6,591,640	6,165,577	-6%	11,715,401	11,979,502	2%	5,123,761	5,813,925	13%
16/08	7,665,492	7,291,619	-5%	13,748,889	14,165,772	3%	6,083,397	6,874,153	13%
01/09	8,843,809	8,475,602	-4%	15,994,928	16,475,029	3%	7,151,119	7,999,427	12%
16/09	9,899,831	9,166,246	-7%	17,961,617	18,026,043	0%	8,061,786	8,859,797	10%
01/10	10,686,530	10,176,578	-5%	19,528,481	20,023,365	3%	8,841,951	9,846,787	11%
16/10	11,674,684	11,067,780	-5%	21,442,441	21,715,992	1%	9,767,757	10,648,212	9%
01/11	12,527,975	11,997,316	-4%	23,132,213	23,559,915	2%	10,604,238	11,562,599	9%
16/11	13,055,989	12,586,658	-4%	24,236,307	24,757,644	2%	11,180,318	12,170,986	9%
01/12	13,389,562	13,057,597	-2%	25,050,667	25,641,276	2%	11,661,105	12,583,679	8%
16/12	13,567,576	13,552,784	0%	25,548,177	26,435,683	3%	11,980,601	12,882,899	8%
01/01	13,634,128	13,882,682	2%	25,762,365	26,943,621	5%	12,128,237	13,060,939	8%
16/01	13,656,518	13,938,180	2%	25,837,671	27,036,902	5%	12,181,153	13,098,722	8%
01/02	13,663,199	14,018,169	3%	25,891,733	27,210,891	5%	12,228,534	13,192,722	8%
16/02	13,668,377	14,089,239	3%	25,928,738	27,347,333	5%	12,260,361	13,258,094	8%
01/03	13,669,977	14,115,340	3%	25,947,637	27,416,997	6%	12,277,660	13,301,657	8%
16/03	13,670,627	14,220,187	4%	25,973,537	27,641,173	6%	12,302,910	13,420,986	9%
01/04	13,722,772	14,576,624	6%	26,231,640	28,224,510	8%	12,508,868	13,647,886	9%

Source: UNICA. Note: data include the volume of reprocessed ethanol and corn ethanol production.

Table 7. Bi-weekly anhydrous ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	ANHYDROUS ETHANOL (m ³)								
	São Paulo State			South-Central region			Others states		
	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)
16/04	132,783	55,706	-58%	166,590	87,975	-47%	33,807	32,269	-5%
01/05	362,694	263,202	-27%	477,671	407,047	-15%	114,977	143,845	25%
16/05	803,769	485,873	-40%	1,172,755	802,021	-32%	368,986	316,148	-14%
01/06	1,268,890	851,574	-33%	1,895,910	1,406,514	-26%	627,020	554,940	-11%
16/06	1,778,497	1,210,654	-32%	2,697,375	2,043,710	-24%	918,878	833,056	-9%
01/07	2,292,510	1,681,476	-27%	3,536,998	2,831,670	-20%	1,244,488	1,150,194	-8%
16/07	2,798,424	1,992,250	-29%	4,335,589	3,359,555	-23%	1,537,165	1,367,305	-11%
01/08	3,269,921	2,548,766	-22%	5,069,087	4,251,870	-16%	1,799,166	1,703,104	-5%
16/08	3,824,333	3,094,935	-19%	5,974,889	5,144,865	-14%	2,150,556	2,049,930	-5%
01/09	4,406,324	3,657,879	-17%	6,935,036	6,063,858	-13%	2,528,712	2,405,979	-5%
16/09	4,879,989	3,990,004	-18%	7,711,852	6,660,872	-14%	2,831,863	2,670,868	-6%
01/10	5,234,006	4,469,636	-15%	8,345,753	7,460,369	-11%	3,111,747	2,990,733	-4%
16/10	5,688,468	4,895,119	-14%	9,126,272	8,127,125	-11%	3,437,804	3,232,006	-6%
01/11	6,070,131	5,367,488	-12%	9,817,690	8,907,846	-9%	3,747,559	3,540,358	-6%
16/11	6,284,915	5,679,302	-10%	10,253,670	9,460,869	-8%	3,968,755	3,781,567	-5%
01/12	6,419,813	5,942,187	-7%	10,545,045	9,886,709	-6%	4,125,232	3,944,522	-4%
16/12	6,498,592	6,188,191	-5%	10,746,745	10,261,032	-5%	4,248,153	4,072,841	-4%
01/01	6,515,580	6,327,118	-3%	10,822,208	10,466,983	-3%	4,306,628	4,139,865	-4%
16/01	6,503,973	6,340,106	-3%	10,821,780	10,495,339	-3%	4,317,807	4,155,233	-4%
01/02	6,508,313	6,366,005	-2%	10,832,828	10,545,398	-3%	4,324,515	4,179,393	-3%
16/02	6,507,253	6,391,130	-2%	10,828,026	10,576,714	-2%	4,320,773	4,185,584	-3%
01/03	6,475,396	6,390,622	-1%	10,776,249	10,577,600	-2%	4,300,853	4,186,978	-3%
16/03	6,462,995	6,341,655	-2%	10,730,853	10,531,140	-2%	4,267,858	4,189,485	-2%
01/04	6,453,833	6,425,674	0%	10,739,509	10,643,208	-1%	4,285,676	4,217,534	-2%

Source: UNICA. Note: data include the volume of reprocessed ethanol and corn ethanol production.

Table 8. Bi-weekly hydrous ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	HYDROUS ETHANOL (m ³)								
	São Paulo State			South-Central region			Others states		
	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)	2014/2015	2015/2016	Var. (%)
16/04	165,758	177,162	7%	347,349	481,980	39%	181,591	304,818	68%
01/05	525,924	581,292	11%	1,008,951	1,303,288	29%	483,027	721,996	49%
16/05	998,585	995,874	0%	1,912,193	2,152,333	13%	913,608	1,156,459	27%
01/06	1,438,284	1,579,777	10%	2,789,320	3,294,700	18%	1,351,036	1,714,923	27%
16/06	1,918,958	2,069,464	8%	3,717,630	4,328,928	16%	1,798,672	2,259,464	26%
01/07	2,432,146	2,662,054	9%	4,765,994	5,551,818	16%	2,333,848	2,889,764	24%
16/07	2,913,276	3,013,913	3%	5,779,447	6,417,612	11%	2,866,171	3,403,699	19%
01/08	3,321,719	3,616,811	9%	6,646,314	7,727,632	16%	3,324,595	4,110,821	24%
16/08	3,841,159	4,196,684	9%	7,774,000	9,020,907	16%	3,932,841	4,824,223	23%
01/09	4,437,485	4,817,723	9%	9,059,892	10,411,171	15%	4,622,407	5,593,448	21%
16/09	5,019,842	5,176,242	3%	10,249,765	11,365,171	11%	5,229,923	6,188,929	18%
01/10	5,452,524	5,706,942	5%	11,182,728	12,562,996	12%	5,730,204	6,856,054	20%
16/10	5,986,216	6,172,661	3%	12,316,169	13,588,867	10%	6,329,953	7,416,206	17%
01/11	6,457,844	6,629,828	3%	13,314,523	14,652,069	10%	6,856,679	8,022,241	17%
16/11	6,771,074	6,907,356	2%	13,982,637	15,296,775	9%	7,211,563	8,389,419	16%
01/12	6,969,749	7,115,410	2%	14,505,622	15,754,567	9%	7,535,873	8,639,157	15%
16/12	7,068,984	7,364,593	4%	14,801,432	16,174,651	9%	7,732,448	8,810,058	14%
01/01	7,118,548	7,555,564	6%	14,940,157	16,476,638	10%	7,821,609	8,921,074	14%
16/01	7,152,545	7,598,074	6%	15,015,891	16,541,563	10%	7,863,346	8,943,489	14%
01/02	7,154,886	7,652,164	7%	15,058,905	16,665,493	11%	7,904,019	9,013,329	14%
16/02	7,161,124	7,698,109	7%	15,100,712	16,770,619	11%	7,939,588	9,072,510	14%
01/03	7,194,581	7,724,718	7%	15,171,388	16,839,397	11%	7,976,807	9,114,679	14%
16/03	7,207,632	7,878,532	9%	15,242,684	17,110,033	12%	8,035,052	9,231,501	15%
01/04	7,268,939	8,150,950	12%	15,492,131	17,581,302	13%	8,223,192	9,430,352	15%

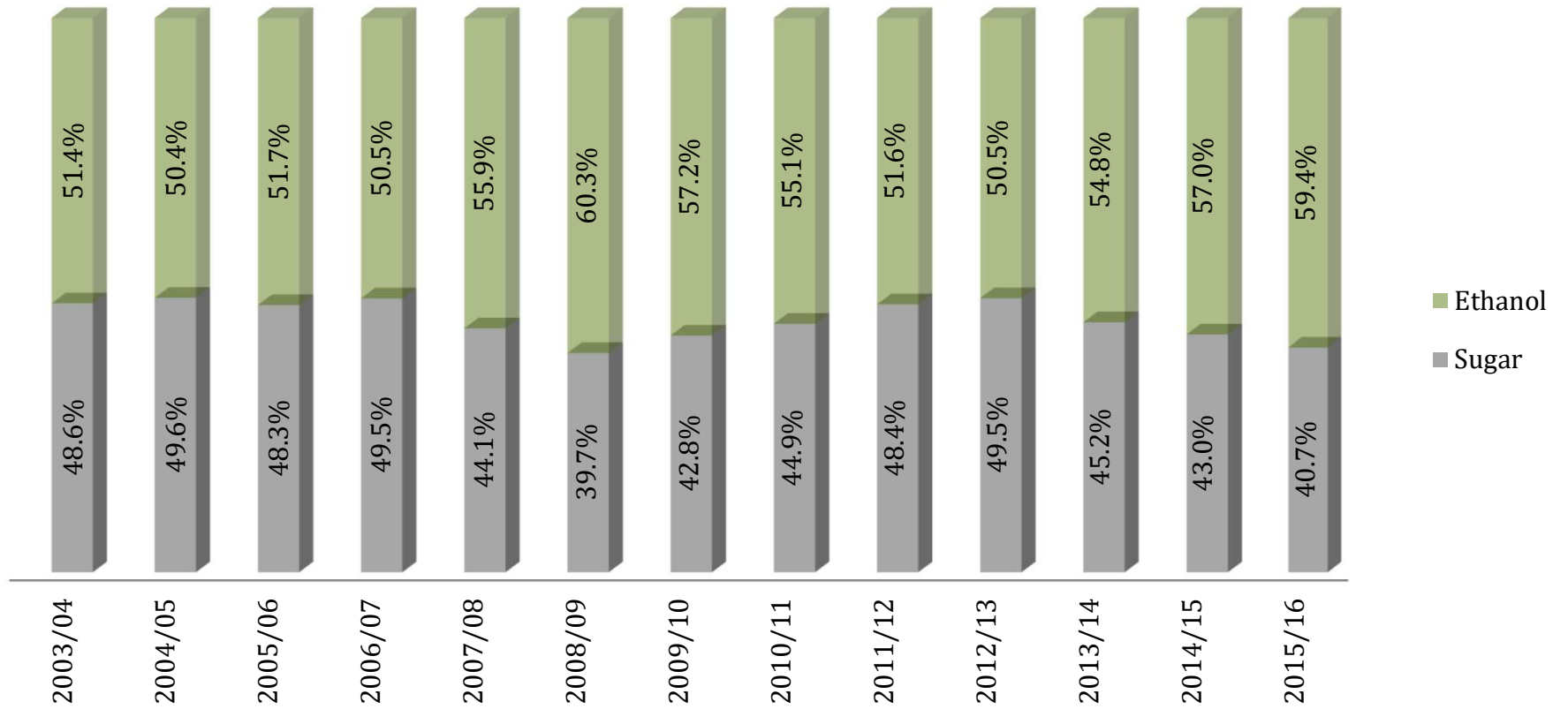
Source: UNICA. Note: data include the volume of reprocessed ethanol and corn ethanol production.

Table 9. Bi-weekly ethanol mix (%) South-Central region

Bi-weekly period	ETHANOL MIX (%)					
	São Paulo State		South-Central region		Others states	
	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016
16/04	61.76	65.56	66.25	69.51	73.90	72.63
01/05	58.14	57.91	62.57	63.50	71.02	71.65
16/05	51.65	56.03	57.61	62.15	68.17	70.29
01/06	49.96	52.35	56.26	58.85	67.41	69.18
16/06	48.29	50.34	54.82	57.83	67.06	68.39
01/07	47.76	49.56	54.30	56.32	64.98	66.59
16/07	47.12	51.79	53.62	60.87	64.33	72.53
01/08	47.35	48.53	53.77	56.04	64.57	67.79
16/08	47.44	48.07	54.17	55.18	64.49	65.58
01/09	48.27	49.55	54.74	56.80	64.33	67.24
16/09	50.10	51.46	56.06	60.06	65.09	69.49
01/10	55.63	49.85	60.86	57.51	67.29	68.33
16/10	50.49	48.39	56.80	56.67	65.62	70.16
01/11	51.35	50.17	57.34	57.86	65.14	68.70
16/11	54.30	54.42	59.99	61.80	66.40	71.28
01/12	56.67	60.10	63.44	66.91	69.23	77.15
16/12	66.55	62.47	67.60	66.50	68.22	74.77

Source: UNICA. Note: ethanol mix was calculated excluding corn ethanol production registered.

Use of sugarcane in South-Central region. Values in %.



Source: UNICA.

Table 10. Bi-weekly sugarcane quality index (kg of TRS per ton of sugarcane) for South-Central region

Bi-weekly period	kg of TRS/ ton of sugarcane					
	São Paulo State		South-Central region		Others states	
	2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016
16/04	103.41	96.10	103.44	104.40	103.50	112.05
01/05	111.59	111.17	110.10	111.67	107.37	112.39
16/05	123.50	118.66	121.58	118.29	118.32	117.80
01/06	129.33	125.64	127.78	124.34	125.14	122.33
16/06	130.85	123.27	129.81	124.07	127.91	125.22
01/07	136.28	129.95	134.47	129.97	131.61	130.00
16/07	140.57	131.53	139.32	132.42	137.29	133.59
01/08	141.68	134.74	141.15	134.84	140.28	134.99
16/08	144.64	141.18	142.81	141.21	140.10	141.25
01/09	149.73	144.43	147.49	145.84	144.29	147.92
16/09	152.06	146.69	149.64	147.96	146.11	149.37
01/10	154.90	142.28	152.18	145.57	148.98	150.48
16/10	145.80	137.14	145.73	140.02	145.65	144.98
01/11	144.83	137.33	145.68	140.49	146.81	145.20
16/11	136.66	126.01	135.36	128.57	133.93	132.00
01/12	143.56	115.53	138.17	118.99	133.88	124.58
16/12	122.83	109.04	122.14	112.21	121.75	119.33

Source: UNICA. Note: data exclude corn ethanol production.

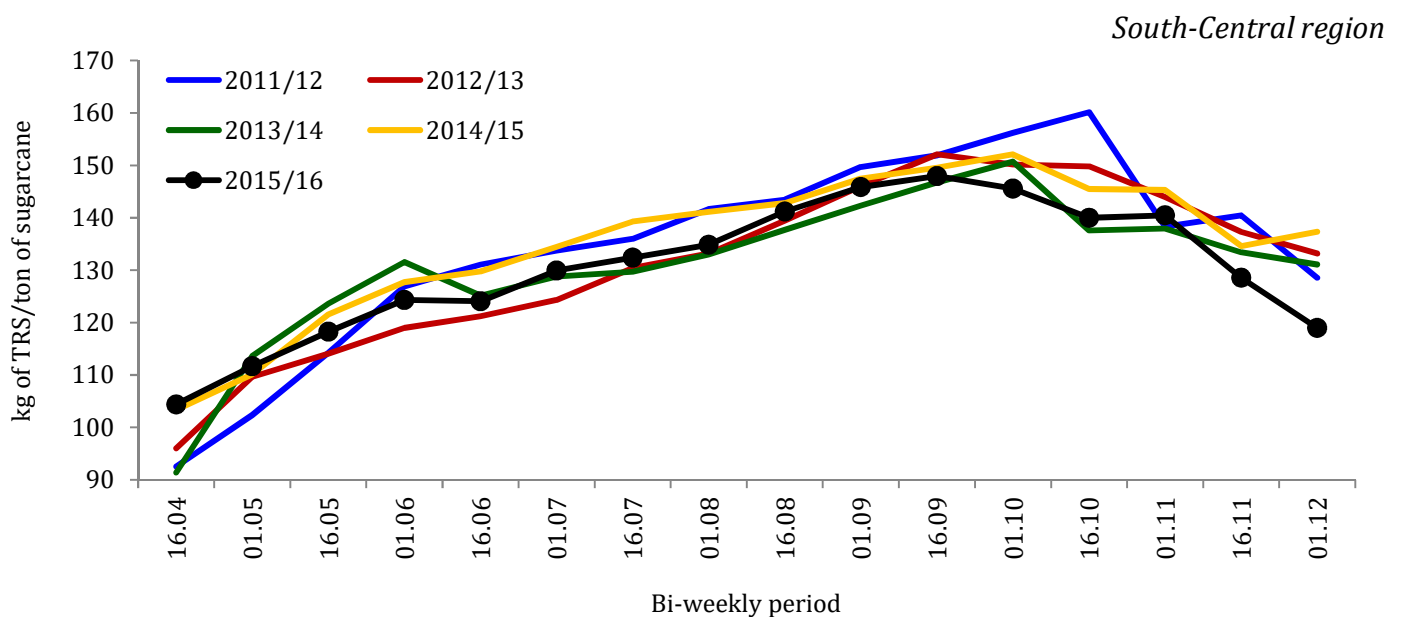


Table 11. Historical series of sugarcane quality (kg of TRS per ton of sugarcane) and the number of new mills and closed mills, per harvest season, in South-Central region.

Harvest season	Average TRS (kg TRS/ ton of sugarcane)	Number of new mills	Number of closed mills
2007/2008	143.63	22	2
2008/2009	140.11	29	2
2009/2010	129.56	21	3
2010/2011	140.50	10	5
2011/2012	137.54	3	14
2012/2013	135.57	2	13
2013/2014	133.38	2	10
2014/2015	136.45	0	9
2015/2016	130.51	0	9

Source: UNICA.

Table 12. Ethanol sales by mills in South-Central region, per ethanol type and destination (m³).

Products	Month	Total		External market		Domestic market	
		2014/2015	2015/2016	2014/2015	2015/2016	2014/2015	2015/2016
Total ethanol	Apr	1,809,742	2,185,449	169,000	33,865	1,640,742	2,151,584
	May	2,118,344	2,275,775	166,660	73,722	1,951,684	2,202,053
	Jun	1,983,139	2,499,778	127,359	124,077	1,855,780	2,375,701
	Jul	2,023,931	2,673,394	85,600	214,869	1,938,331	2,458,525
	Aug	2,040,256	2,748,361	89,975	258,907	1,950,281	2,489,454
	Sep	2,049,059	2,704,484	95,575	253,277	1,953,484	2,451,207
	Oct	2,153,526	2,752,942	79,579	272,921	2,073,947	2,480,021
	Nov	2,058,956	2,532,566	137,727	268,213	1,921,229	2,264,353
	Dec	2,257,838	2,524,772	158,260	178,560	2,099,578	2,346,212
	Jan	2,184,627	2,214,021	78,599	116,274	2,106,028	2,097,747
	Feb	1,931,637	1,937,856	57,120	36,677	1,874,517	1,901,179
	Mar	2,569,663	2,225,459	255,683	100,729	2,313,980	2,124,730
		Total	25,180,718	29,274,857	1,501,137	1,932,091	23,679,581
Anhydrous ethanol	Apr	806,759	710,609	143,534	26,179	663,225	684,430
	May	984,435	785,086	128,708	54,914	855,727	730,172
	Jun	894,955	884,817	48,402	50,745	846,553	834,072
	Jul	882,724	968,554	29,511	112,743	853,213	855,811
	Aug	883,158	1,046,438	57,047	182,619	826,111	863,819
	Sep	881,617	1,013,770	43,156	158,504	838,461	855,266
	Oct	860,133	880,545	35,564	117,184	824,569	763,361
	Nov	799,076	945,083	46,559	137,667	752,517	807,416
	Dec	924,549	1,012,691	120,529	76,155	804,020	936,536
	Jan	852,174	890,201	42,261	57,297	809,913	832,904
	Feb	708,369	842,862	27,714	11,525	680,655	831,337
	Mar	965,714	1,070,129	102,532	66,873	863,182	1,003,256
		Total	10,443,663	11,050,785	825,517	1,052,405	9,618,146
Hydrous ethanol	Apr	1,002,983	1,474,840	25,466	7,686	977,517	1,467,154
	May	1,133,909	1,490,689	37,952	18,808	1,095,957	1,471,881
	Jun	1,088,184	1,614,961	78,957	73,332	1,009,227	1,541,629
	Jul	1,141,207	1,704,840	56,089	102,126	1,085,118	1,602,714
	Aug	1,157,098	1,701,923	32,928	76,288	1,124,170	1,625,635
	Sep	1,167,442	1,690,714	52,419	94,773	1,115,023	1,595,941
	Oct	1,293,393	1,872,397	44,015	155,737	1,249,378	1,716,660
	Nov	1,259,880	1,587,483	91,168	130,546	1,168,712	1,456,937
	Dec	1,333,289	1,512,081	37,731	102,405	1,295,558	1,409,676
	Jan	1,332,453	1,323,820	36,338	58,977	1,296,115	1,264,843
	Feb	1,223,268	1,094,994	29,406	25,152	1,193,862	1,069,842
	Mar	1,603,949	1,155,330	153,151	33,856	1,450,798	1,121,474
		Total	14,737,055	18,224,072	675,620	879,686	14,061,435

Source: UNICA. Note: data includes ethanol for fuel, industrial purposes, beverage production and the volume destined to own consumption by mills. It also includes the imports by producers and non-producers, beyond the amount used for transfer duct ethanol ballast.

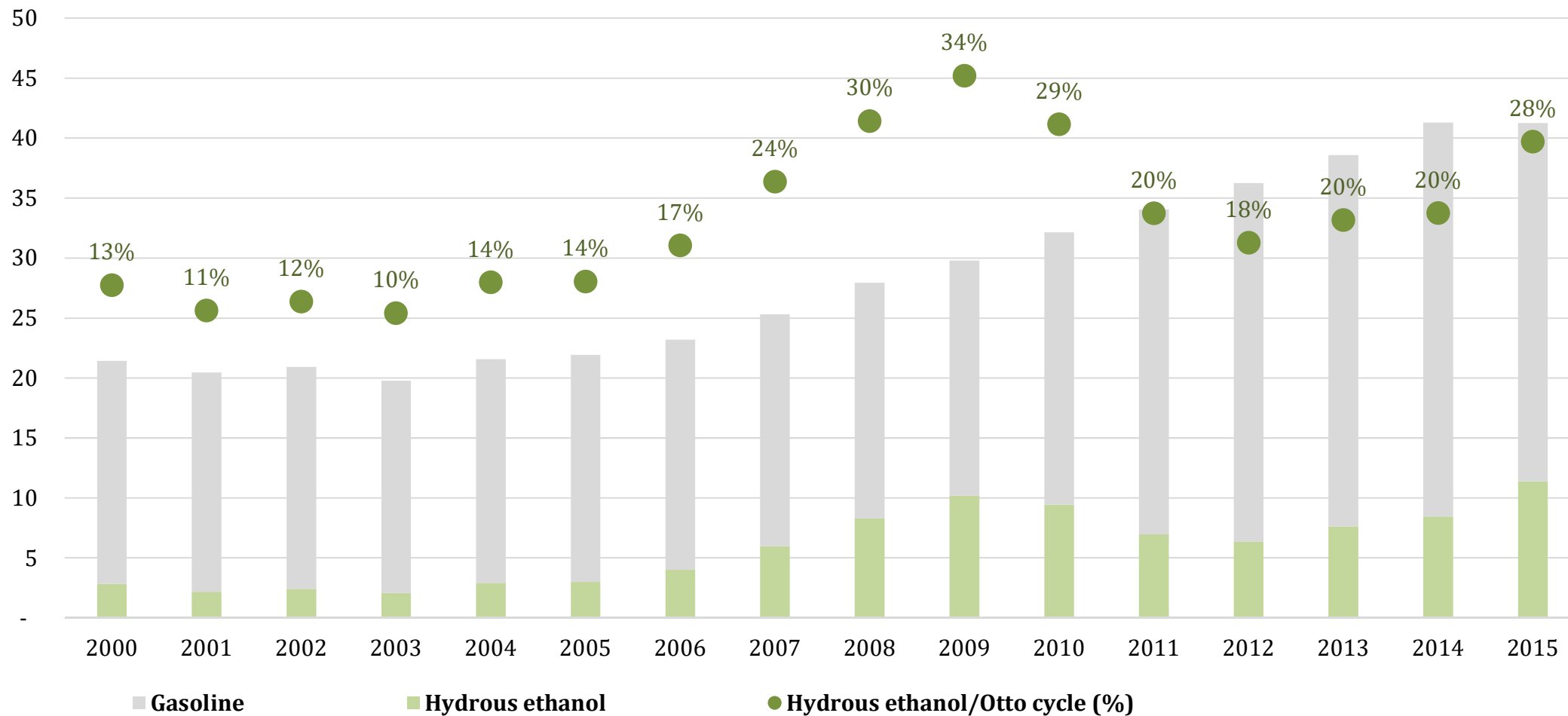
Table 13. Monthly sales by mills in South-Central region - ethanol for other uses (m³)

Product	Month	Total				Anhydrous ethanol				Hydrous ethanol			
		2014/2015	2015/2016	Var. (%)		2014/2015	2015/2016	Var. (%)		2014/2015	2015/2016	Var. (%)	
Ethanol for other uses	Apr	61,034	74,454	22.0%	21.99%	18,197	12,078	-33.6%	-33.63%	42,837	62,376	45.6%	45.61%
	May	83,058	76,786	-7.6%	-7.55%	21,038	14,688	-30.2%	-30.18%	62,020	62,098	0.1%	0.13%
	Jun	88,147	84,796	-3.8%	-3.80%	14,696	12,454	-15.3%	-15.26%	73,451	72,342	-1.5%	-1.51%
	Jul	90,267	94,706	4.9%	4.92%	19,593	20,112	2.6%	2.65%	70,674	74,594	5.5%	5.55%
	Aug	111,208	75,963	-31.7%	-31.69%	21,984	18,033	-18.0%	-17.97%	89,224	57,930	-35.1%	-35.07%
	Sep	91,789	58,025	-36.8%	-36.78%	16,274	14,874	-8.6%	-8.60%	75,515	43,151	-42.9%	-42.86%
	Oct	99,605	60,719	-39.0%	-39.04%	20,071	15,043	-25.1%	-25.05%	79,534	45,676	-42.6%	-42.57%
	Nov	92,507	70,887	-23.4%	-23.37%	16,183	12,559	-22.4%	-22.39%	76,324	58,328	-23.6%	-23.58%
	Dec	77,845	68,334	-12.2%	-12.22%	11,511	12,595	9.4%	9.42%	66,334	55,739	-16.0%	-15.97%
	Jan	73,788	65,279	-11.5%	-11.53%	14,601	14,328	-1.9%	-1.87%	59,187	50,951	-13.9%	-13.92%
	Feb	67,717	63,571	-6.1%	-6.12%	12,597	13,534	7.4%	7.44%	55,120	50,037	-9.2%	-9.22%
	Mar	65,883	65,702	-0.3%	-0.27%	13,168	13,231	0.5%	0.48%	52,715	52,471	-0.5%	-0.46%
	Total	1,002,848	859,222	-14.3%	-14.32%	199,913	173,529	-13.2%	-13.20%	802,935	685,693	-14.6%	-14.60%

Source: UNICA. Note: ethanol sales destined to the domestic market shown in Table 12, include the volume of ethanol fuel traded, ethanol for other purposes (shown in the table above), imports, losses and own use by mills, beyond the amount used for transfer duct ethanol ballast.

Ethanol participation in the fuel matrix - Region South-Central

Fuel consumption (billion liters - equivalent petrol)



Source: ANP (consumption of ethanol, anhydrous and hydrated in the Central-South region). Elaboration: UNICA. Data do not include consumption of CNG.

Table 14. Sugar exports by South-Central region of Brazil (thousand tons).

Month	Harvest season		Var. (%)
	2014/2015	2015/2016	
April	1,125	817	↓ -27.39%
May	1,278	1,625	↑ 27.14%
June	1,776	1,932	↑ 8.77%
July	2,353	2,141	↓ -9.00%
August	2,305	1,807	↓ -21.60%
September	2,191	1,728	↓ -21.15%
October	2,612	2,475	↓ -5.23%
November	1,858	2,193	↑ 18.02%
December	1,806	2,468	↑ 36.64%
January	2,197	1,317	↓ -40.07%
February	810	2,567	↑ 216.77%
March	1,868	1,984	↑ 6.19%
Total	22,180	23,054	↑ 3.94%

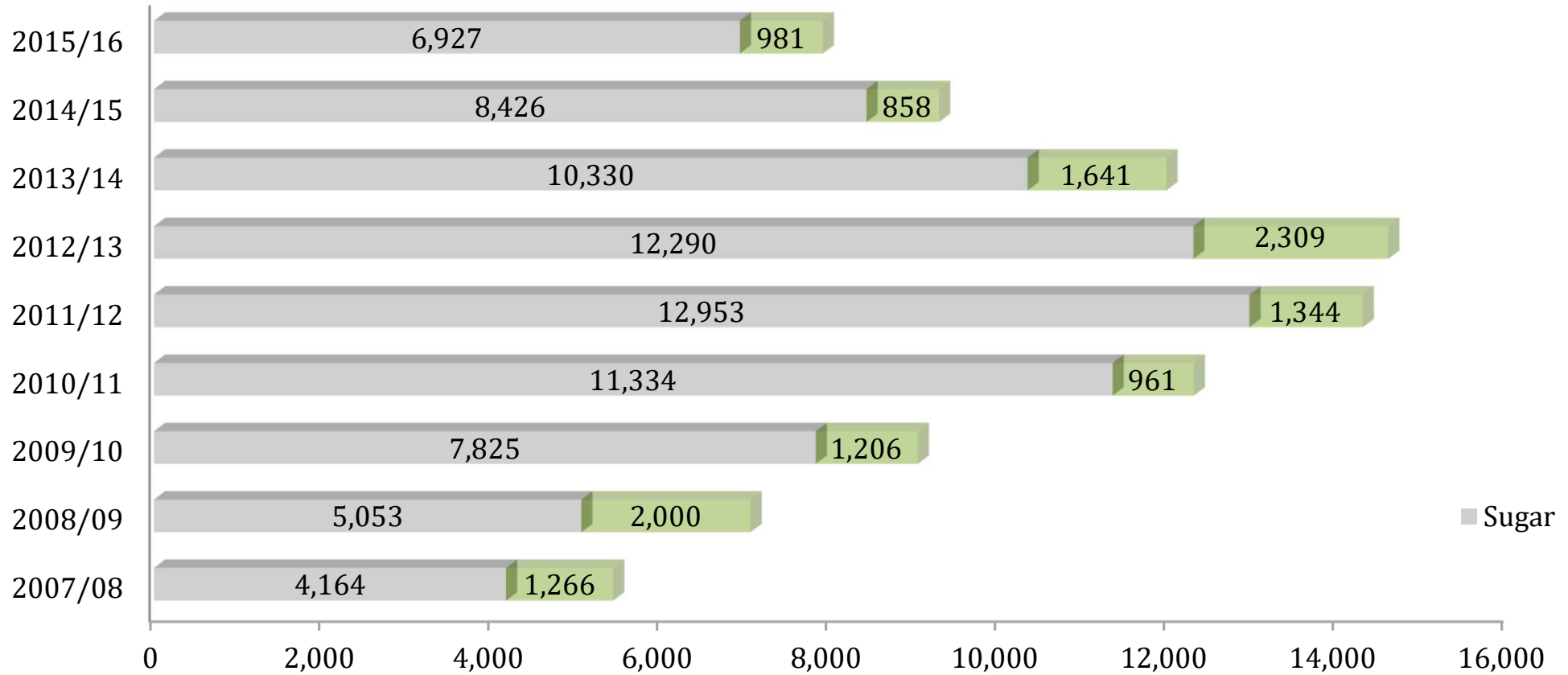
Source: Secex. Elaboration: UNICA.

Table 15. Ethanol imports by South-Central region of Brazil (m³).

Month	Harvest season		Var. (%)	
	2014/2015	2015/2016		
April	3,546	14,356	###	305%
May	5,991	73	###	-99%
June	8,353	103	###	-99%
July	563	108	###	-81%
August	15,082	116	###	-99%
September	582	33	###	-94%
October	139	57	###	-59%
November	37	28	###	-23%
December	56	9	###	-85%
January	21,384	14	###	-100%
February	21,941	7	###	-100%
March	27,861	128	###	-100%
Total	105,534	15,032	###	-85.76%
Share of ethanol imports from USA (%)	90.85%	96.17%		
Imports as a share of ethanol consumption (%)	0.50%	0.06%		

Source: Secex (for imports, considering the place of unloading) and ANP (for consumption data). Elaboration: UNICA.

Sugar and ethanol export revenues generated by Brazilian South-Central region (million US\$)



Source: Secex. Elaboration: UNICA. Note: data from South-Central region has been compiled according to the state where the exporting company is located.

Table 16. Ethanol conversion in South-Central region of Brazil (m³).

Mês	Conversion of anhydrous ethanol into hydrous ethanol		Conversion of hydrous ethanol into anhydrous ethanol	
	2014/2015	2015/2016	2014/2015	2015/2016
Apr	22.5	63.0	26.4	30.2
May	1.8	4.0	54.2	39.5
Jun	2.4	4.3	70.3	74.2
Jul	1.5	7.1	88.7	61.6
Aug	4.5	0.3	68.4	58.5
Sep	2.6	2.9	70.4	69.6
Oct	3.8	0.2	88.9	81.7
Nov	2.9	1.1	98.7	127.2
Dec	8.0	2.6	66.7	108.4
Jan	33.0	8.4	12.8	23.6
Feb	62.7	21.8	0.0	4.9
Mar	82.8	113.4	14.7	1.9
Total	228.7	229.0	660.3	681.4

Source: UNICA.

Table 17. Ethanol supply & demand balance in South-Central region of Brazil. Volume in thousand m³.

	Anhydrous ethanol	Hydrous ethanol	Total
Stock in April 1, 2015	1,132	1,217	2,349
Production during 2015/2016 harvest season - beginning in 04/01/2015*			
Production during 2015/2016 harvest season - beginning in 04/01/2015*	10,710	17,581	28,291
Sales to domestic market - April 2015 to March of 2016	9,998	17,344	27,343
<i>Sales of fuel ethanol</i>	<i>9,785</i>	<i>16,500</i>	<i>26,285</i>
<i>Sales of ethanol for industrial purposes and to own consumption by mills</i>	<i>213</i>	<i>844</i>	<i>1,058</i>
Sales to external market - April to March of 2016	1,052	880	1,932
Stock in April 1, 2016	791	574	1,365

Source: UNICA. Note: *production include the volume of hydrous ethanol converted into anhydrous ethanol (vice versa), the imports by producers and non-producers, corn ethanol production and production of new crop (2016/2017) held until April 1, 2016.

Table 18. Sugar supply & demand balance in South-Central region of Brazil. Values in thousand tonns.

	2014/2015	2015/2016	Var. (%)	
Initial stock	1,880	2,982	↑	58.60%
Production	31,987	31,221	↓	-2.39%
Exports*	22,180	23,054	↑	3.94%
Domestic market**	8,705	8,924	↑	2.52%
Final stock	2,982	2,225	↓	-25.37%

Source: UNICA and Secex. Note: *export data provided by Secex; **domestic market calculated by the difference between the sum of the initial stock and production, minus sales to external market and the stock registered at the end of the harvest season.

Table 19. Average prices of TRS and of the sugarcane delivered by growers in São Paulo state. Nominal values.

Harvest season	Kg of TRS/ ton. of sugarcane*	R\$/ton. of sugarcane	R\$/ton. of sugarcane	
			Sugarcane destined to sugar production	Sugarcane destined to ethanol production
2007/2008	143.85	35.14	32.86	37.14
2008/2009	141.80	39.45	39.49	39.43
2009/2010	130.10	45.43	51.81	39.94
2010/2011	141.50	56.91	62.37	51.83
2011/2012	137.78	69.12	74.28	64.69
2012/2013	135.34	63.99	68.02	59.16
2013/2014	133.35	60.97	59.61	62.39
2014/2015	137.79	65.63	64.94	66.29
2015/2016	129.06	71.65	70.48	72.67

Source: Consecana, Orplana and UNICA. Elaboration: UNICA. Note: *TRS product - average value for the State of São Paulo.

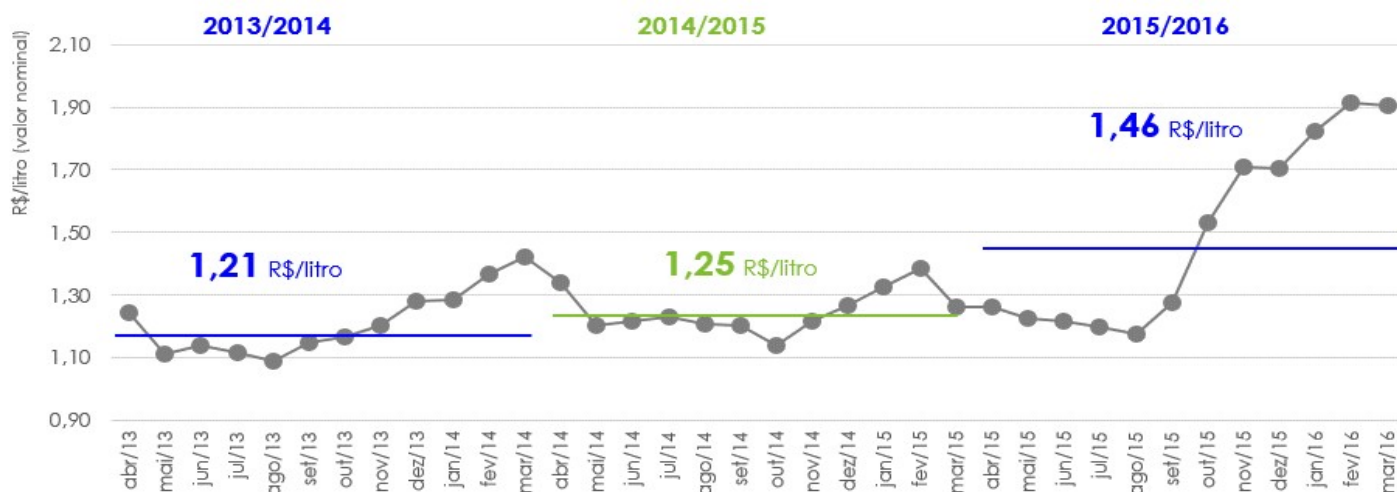
Table 20. Corn ethanol production in South Central region during 2015/2016 harvest season (m³).

Bi-weekly period	CORN ETHANOL PRODUCTION					
	Bi-weekly production			Accumulated production		
	Anhydrous	Hydrous	Total	Anhydrous	Hydrous	Total
16/04	0	8,990	8,990	0	8,990	8,990
01/05	0	7,155	7,155	0	16,145	16,145
16/05	0	3,628	3,628	0	19,773	19,773
01/06	0	3,834	3,834	0	23,607	23,607
16/06	0	1,630	1,630	0	25,237	25,237
01/07	744	1,559	2,303	744	26,796	27,540
16/07	0	2,578	2,578	744	29,374	30,118
01/08	0	2,313	2,313	744	31,687	32,431
16/08	0	2,626	2,626	744	34,313	35,057
01/09	0	2,797	2,797	744	37,110	37,854
16/09	0	2,767	2,767	744	39,877	40,621
01/10	0	2,058	2,058	744	41,935	42,679
16/10	0	2,405	2,405	744	44,340	45,084
01/11	0	3,377	3,377	744	47,717	48,461
16/11	0	3,397	3,397	744	51,114	51,858
01/12	996	6,115	7,111	1,740	57,229	58,969
16/12	2,434	7,121	9,555	4,174	64,350	68,524
01/01	2,887	9,368	12,255	7,061	73,718	80,779
16/01	2,621	7,479	10,100	9,682	81,197	90,879
01/02	2,835	7,184	10,019	12,517	88,381	100,898
16/02	2,450	5,171	7,621	14,967	93,552	108,519
01/03	0	10,206	10,206	14,967	103,758	118,725
16/03	1,378	9,775	11,153	16,345	113,533	129,878
01/04	3,524	7,649	11,173	19,869	121,182	141,051

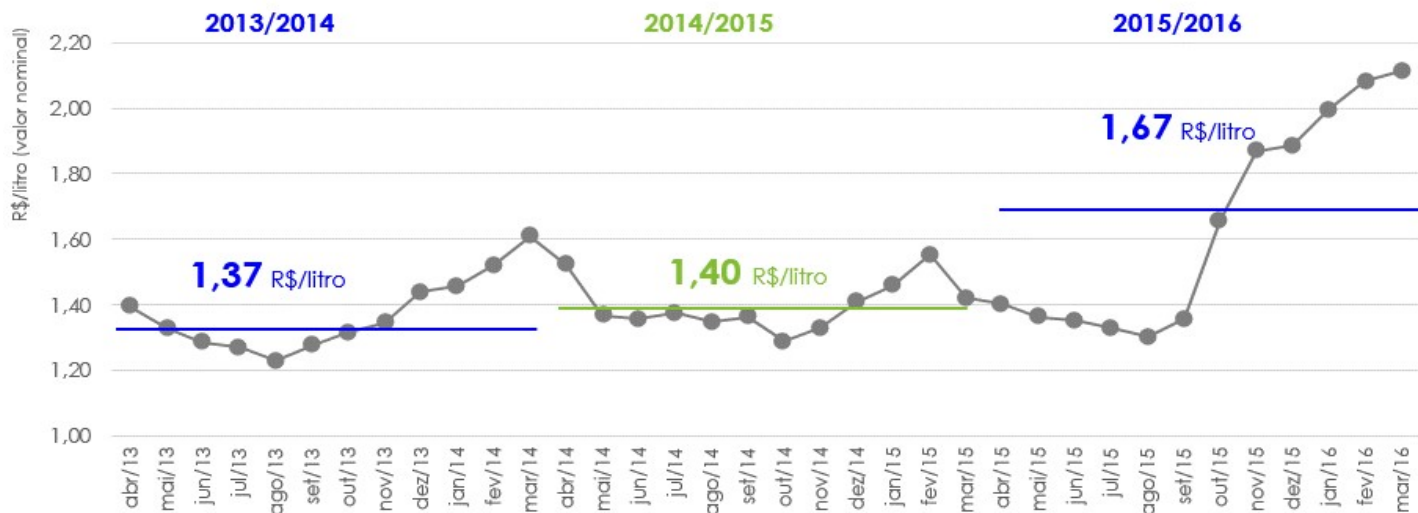
Source: UNICA.

Monthly prices received by producers in São Paulo state - ethanol

Fuel hydrous ethanol (R\$/liter)



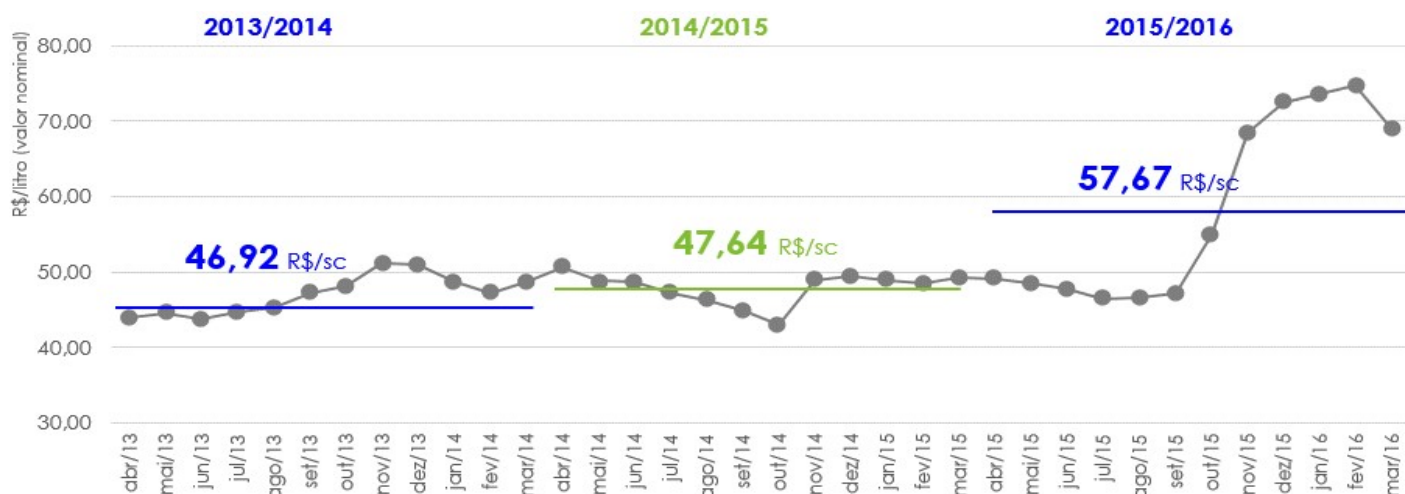
Fuel anhydrous ethanol (R\$/liter)



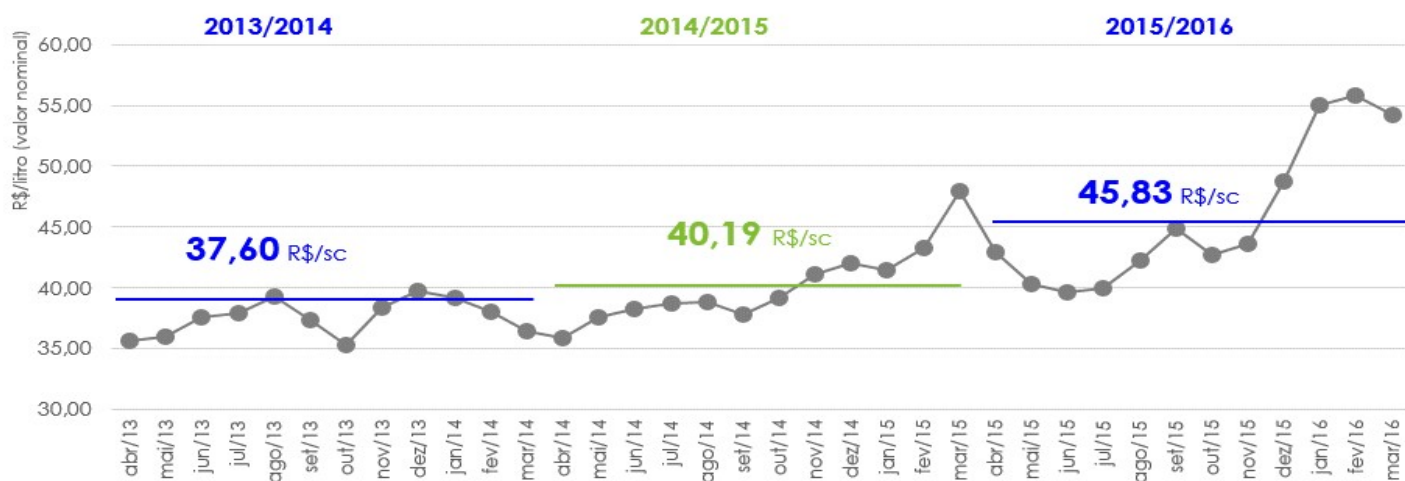
Source: CEPEA. Elaboration: UNICA. Note: prices minus freight charges and taxes; highlighted values refer to the average prices of the harvest season and they are calculated considering the trading curve published by Consecana; nominal values.

Monthly prices received by producers in São Paulo state - sugar

White sugar - domestic market (R\$/ 50 kg bag) - spot market



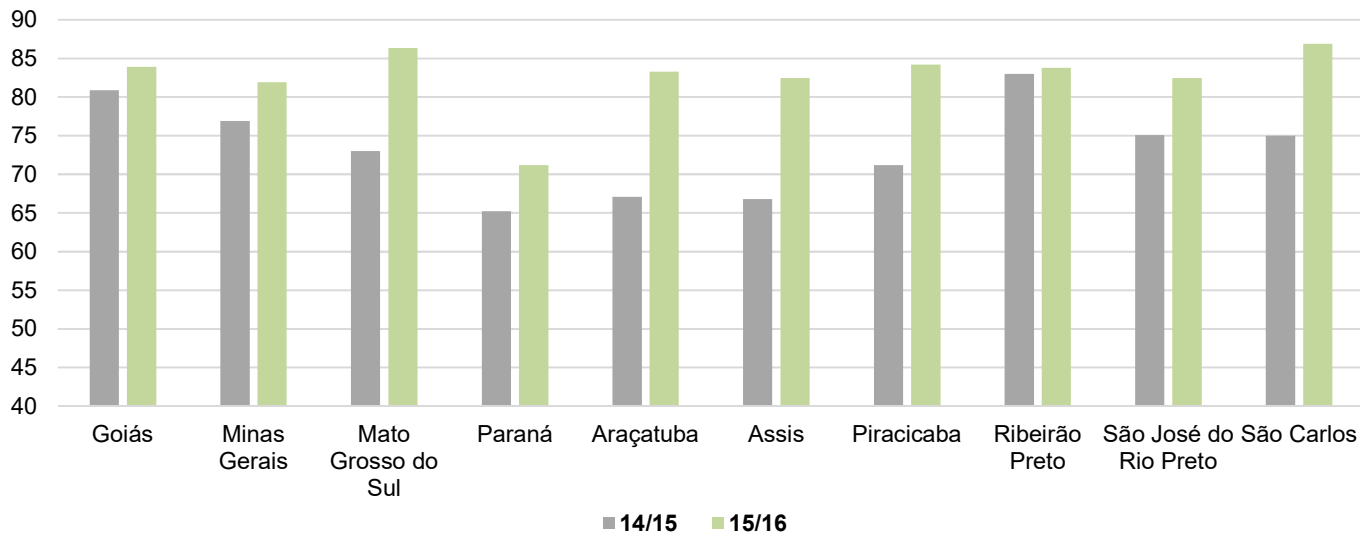
Raw sugar - external market (R\$/ 50 kg bag)



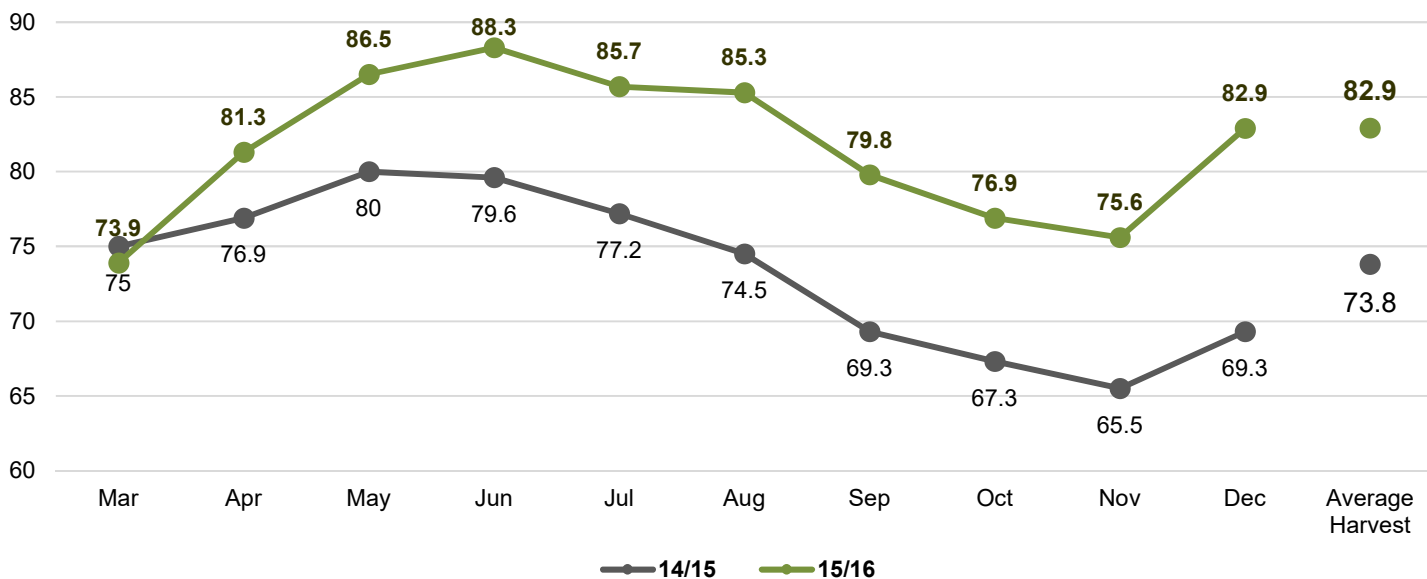
Source: CEPEA. Elaboration: UNICA. Note: prices minus freight charges but include taxes; highlighted values refer to the average prices of the harvest season and they are calculated considering the trading curve published by Consecana; nominal values.

Agricultural productivity in South-Central region of Brazil. Values in tonns of sugarcane per hectare.

Agricultural productivity by sugarcane cutting stage - South-Central region of Brazil and regions of the State of São Paulo

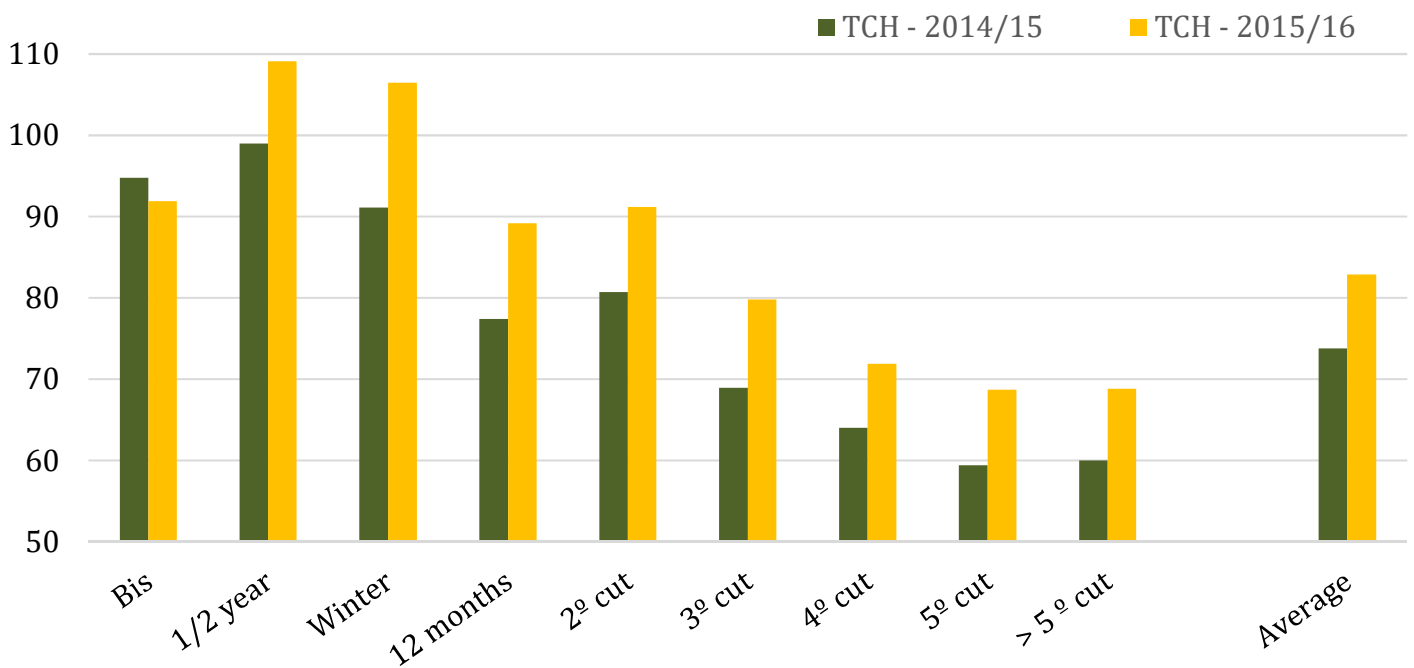


Monthly agricultural productivity - South-Central region of Brazil

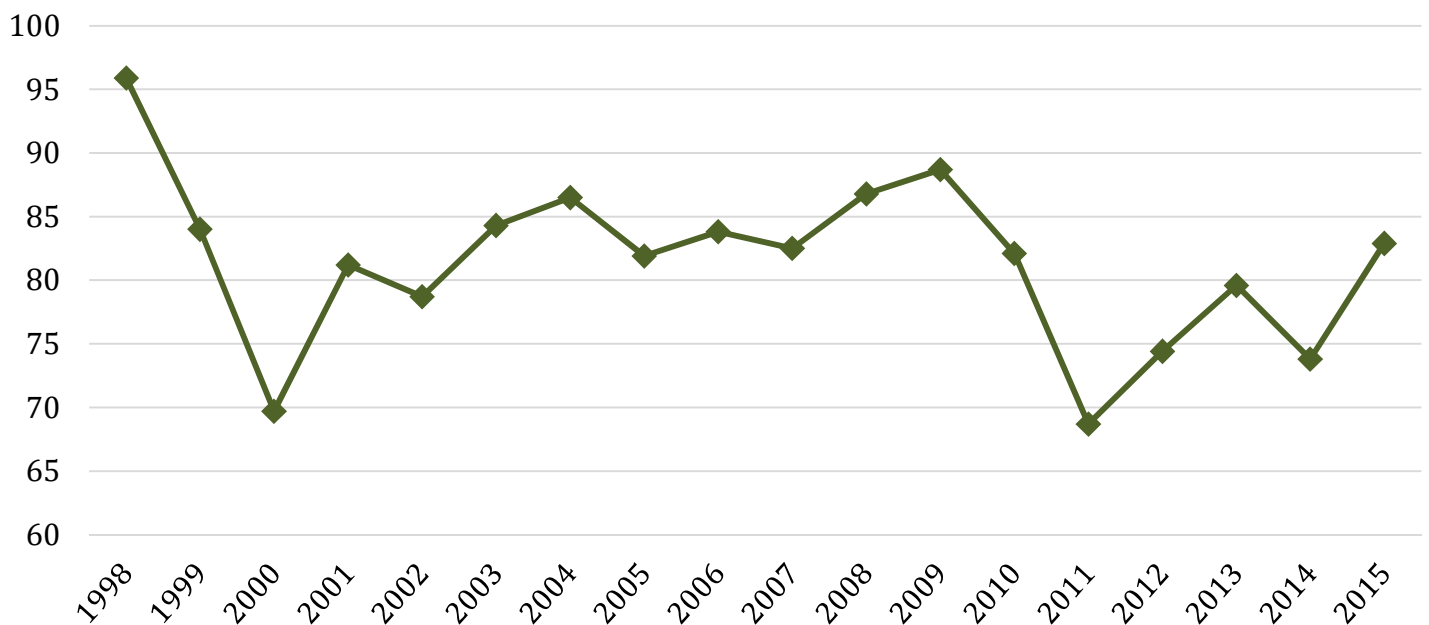


Agricultural productivity in South-Central region of Brazil. Values in tons of sugarcane per hectare.

Agricultural productivity by sugarcane cutting stage - South-Central region of Brazil



Historical average agricultural productivity, by calendar year - South-Central region of Brazil



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Data released in this report has been compiled and analyzed by UNICA, with figures provided by mills and by the following associations of producers from South-Central states:

- *Ethanol and sugar producers association in the state of Paraná (Alcopar);*
- *Bioenergy producers association of Mato Grosso do Sul (Biosul);*
- *Sugar and ethanol industries association in the state of Minas Gerais (SIAMIG);*
- *Association of ethanol industry of Goiás state (SIFAEG);*
- *Sugar and ethanol industry association of Mato Grosso (SINDALCOOL);*
- *Plants and distilleries society of Espírito Santo state (SUDES);*
- *“Fluminense” association of sugar and ethanol producers (SINDAAF).*

Data regarding weather and agricultural conditions has been provided by the Center for Sugarcane Technology (CTC).

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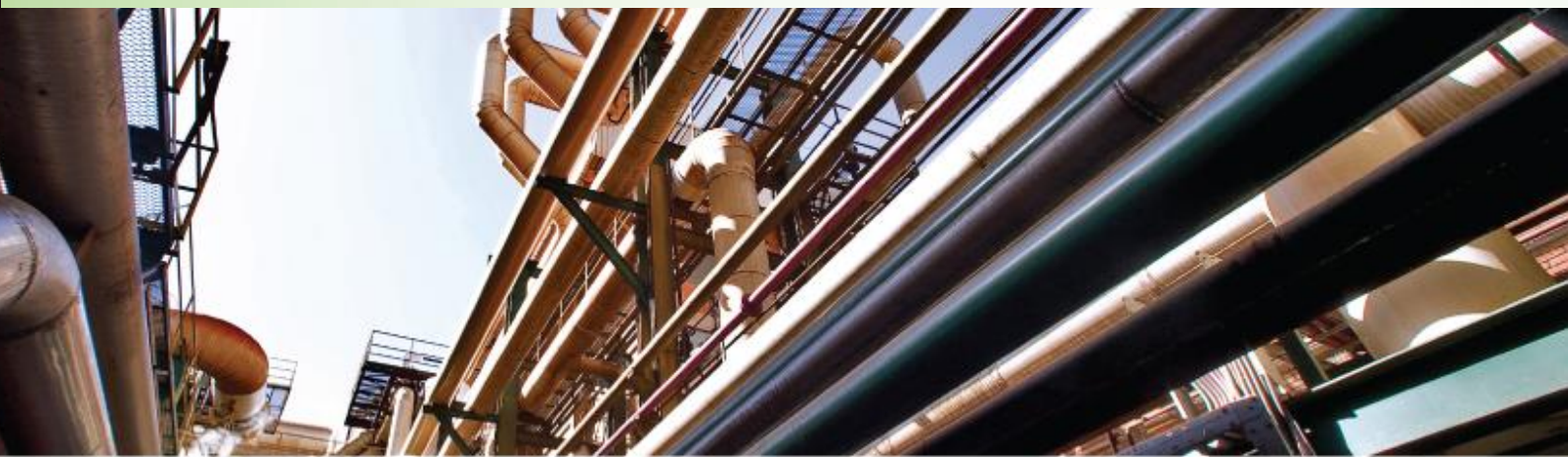
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BioSul
Associação dos Produtores de Bioenergia
de Mato Grosso do Sul



BIOENERGIA - ETANOL - AÇÚCAR
Associação das Indústrias Sucroenergéticas de Minas Gerais



SINDALCOOL/MT
SINDICATO DAS INDÚSTRIAS SUOROALCOOLEIRAS
DO ESTADO DE MATO GROSSO

SINDAAF



SINDICATO DA INDÚSTRIA DE FABRICAÇÃO
DE ETANOL DO ESTADO DE GOIÁS
GOIÁS ETHANOL INDUSTRY ASSOCIATION



SINDICATO DA INDÚSTRIA DE FABRICAÇÃO
DE AÇÚCAR DO ESTADO DE GOIÁS
GOIÁS SUGAR INDUSTRY ASSOCIATION

SUDES