



Final report of 2017/2018 harvest season

South-Central region

Table 1. 2017/2018 sugarcane harvest in South-Central Brazil - final numbers
Comparison with 2016/2017 crop year

Products	Crop year		
	2016/2017	2017/2018	Var. (%)
Sugarcane ¹	607,137	596,330	⬇️ -1.78%
Sugar ¹	35,628	36,060	⬆️ 1.21%
Anhydrous ethanol ²	10,653	10,419	⬇️ -2.19%
Hydrous ethanol ²	14,998	15,670	⬆️ 4.48%
Total ethanol ²	25,651	26,089	⬆️ 1.71%
ATR ¹	80,768	81,454	⬆️ 0.85%
ATR/ ton of sugarcane ³	133.03	136.59	⬆️ 2.68%
Share (%) sugar ethanol	46.29%	46.46%	⬆️
	53.71%	53.54%	⬇️
Liters of ethanol/ ton of sugarcane	41.86	42.88	⬆️ 2.42%
Kilograms of sugar/ ton of sugarcane	58.68	60.47	⬆️ 3.05%

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	
	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
ES	1,351,437	2,380,657	64,035	126,842	59,892	90,471	51,161	79,841	8,731	10,630
GO	67,629,843	70,621,968	2,101,731	2,241,828	4,384,455	4,618,388	1,312,683	1,322,920	3,071,772	3,295,468
MT	16,342,510	16,134,127	397,695	410,524	1,220,605	1,498,675	524,398	539,048	696,207	959,627
MS	50,291,825	46,940,207	1,734,741	1,491,650	2,708,519	2,631,783	806,808	877,535	1,901,711	1,754,248
MG	63,516,093	64,956,358	3,992,717	4,241,214	2,640,802	2,709,559	1,190,171	1,066,750	1,450,631	1,642,809
PR	40,417,087	37,047,410	3,059,860	2,920,682	1,354,898	1,268,948	616,335	569,756	738,563	699,192
RJ	1,552,740	1,061,788	28,596	35,374	81,816	46,342	0	0	81,816	46,342
RS	45,523	44,822	0	0	2,914	2,485	0	0	2,914	2,485
SP	365,989,639	357,142,342	24,248,144	24,591,393	13,196,876	13,222,807	6,151,009	5,963,133	7,045,867	7,259,674
TOTAL	607,136,697	596,329,679	35,627,519	36,059,507	25,650,777	26,089,458	10,652,565	10,418,983	14,998,212	15,670,475

State	Kg ATR/ton. cana		Kg açúcar/ton. cana		Litros etanol/ton. cana		Mix açúcar (%)		Mix etanol (%)	
	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
ES	126.78	122.07	47.38	53.28	44.32	38.00	39.23%	45.81%	60.77%	54.19%
GO	140.68	141.24	31.08	31.74	63.64	63.59	23.18%	23.59%	76.82%	76.41%
MT	137.24	143.86	24.34	25.44	65.30	68.61	18.61%	18.56%	81.39%	81.44%
MS	127.64	128.69	34.49	31.78	53.86	56.07	28.36%	25.92%	71.64%	74.08%
MG	137.03	139.64	62.86	65.29	41.58	41.71	48.15%	49.07%	51.85%	50.93%
PR	136.76	141.17	75.71	78.84	33.52	34.19	58.10%	58.61%	41.90%	41.39%
RJ	107.64	108.12	18.42	33.32	52.69	43.65	17.96%	32.34%	82.04%	67.66%
RS	107.29	92.93	0.00	0.00	64.01	55.44	0.00%	0.00%	0.00%	0.00%
SP	131.20	135.54	66.25	68.86	36.06	37.02	53.00%	53.32%	47.00%	46.68%
TOTAL	133.03	136.59	58.68	60.47	41.86	42.88	46.29%	46.46%	53.71%	53.54%

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	2016/2017	2017/2018
Mixed production mills		
Sugarcane ¹	505,856	510,282
Sugar ¹	35,628	36,060
Anhydrous ethanol ²	8,063	8,109
Hydrous ethanol ²	9,193	10,480
Total ethanol ²	17,256	18,589
Distilleries		
Sugarcane ¹	101,281	86,047
Sugar ¹	0	0
Anhydrous ethanol ²	2,589	2,310
Hydrous ethanol ²	5,805	5,191
Total ethanol ²	8,395	7,500

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		
	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)
16/04	20,807,630	10,584,086	-49%	32,937,311	17,680,550	-46%	12,129,681	7,096,464	-41%
01/05	43,810,763	25,457,747	-42%	69,171,409	41,944,660	-39%	25,360,646	16,486,913	-35%
16/05	69,016,962	49,314,428	-29%	108,863,461	80,518,063	-26%	39,846,499	31,203,635	-22%
01/06	87,700,200	67,787,946	-23%	141,370,048	112,208,931	-21%	53,669,848	44,420,985	-17%
16/06	100,021,436	92,053,836	-8%	167,356,847	151,715,839	-9%	67,335,411	59,662,003	-11%
01/07	129,051,362	121,083,003	-6%	215,590,640	199,430,685	-7%	86,539,278	78,347,682	-9%
16/07	157,304,500	149,736,601	-5%	262,674,418	247,430,421	-6%	105,369,918	97,693,820	-7%
01/08	187,232,304	180,019,004	-4%	312,104,495	298,337,675	-4%	124,872,191	118,318,671	-5%
16/08	214,372,448	207,303,679	-3%	357,238,412	343,773,899	-4%	142,865,964	136,470,220	-4%
01/09	237,768,230	229,603,936	-3%	395,835,298	382,849,503	-3%	158,067,068	153,245,567	-3%
16/09	259,735,670	257,055,881	-1%	433,716,722	428,322,613	-1%	173,981,052	171,266,732	-2%
01/10	285,928,550	281,558,230	-2%	476,244,153	468,782,591	-2%	190,315,603	187,224,361	-2%
16/10	306,207,163	300,974,632	-2%	508,436,907	501,302,431	-1%	202,229,744	200,327,799	-1%
01/11	325,384,943	318,626,608	-2%	540,248,567	531,446,657	-2%	214,863,624	212,820,049	-1%
16/11	338,343,695	332,800,144	-2%	562,019,791	554,896,397	-1%	223,676,096	222,096,253	-1%
01/12	351,467,856	341,369,553	-3%	581,701,477	570,167,275	-2%	230,233,621	228,797,722	-1%
16/12	356,160,979	348,098,812	-2%	588,930,295	580,683,875	-1%	232,769,316	232,585,063	0%
01/01	358,316,216	349,651,376	-2%	592,050,880	583,239,928	-1%	233,734,664	233,588,552	0%
16/01	358,936,280	349,653,193	-3%	593,232,706	583,406,350	-2%	234,296,426	233,753,157	0%
01/02	359,013,578	349,676,954	-3%	593,822,054	583,827,115	-2%	234,808,476	234,150,161	0%
16/02	359,316,264	349,781,517	-3%	594,733,767	584,403,893	-2%	235,417,503	234,622,376	0%
01/03	359,568,552	349,865,021	-3%	595,893,532	585,134,831	-2%	236,324,980	235,269,810	0%
16/03	361,301,457	352,035,767	-3%	599,173,394	588,555,862	-2%	237,871,937	236,520,095	-1%
01/04	365,989,639	357,142,342	-2%	607,136,697	596,329,679	-2%	241,147,058	239,187,337	-1%

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		
	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)
16/04	1,005,677	499,152	-50%	1,437,979	707,217	-51%	432,302	208,065	-52%
01/05	2,300,450	1,288,587	-44%	3,251,370	1,839,645	-43%	950,920	551,058	-42%
16/05	3,813,636	2,774,749	-27%	5,322,367	3,955,364	-26%	1,508,731	1,180,615	-22%
01/06	4,964,788	3,950,378	-20%	7,009,621	5,714,333	-18%	2,044,833	1,763,955	-14%
16/06	5,633,646	5,625,402	0%	8,212,518	8,103,848	-1%	2,578,872	2,478,446	-4%
01/07	7,531,789	7,663,597	2%	11,015,606	11,088,209	1%	3,483,817	3,424,612	-2%
16/07	9,448,820	9,764,159	3%	13,858,080	14,202,469	2%	4,409,260	4,438,310	1%
01/08	11,582,723	12,087,724	4%	16,974,251	17,627,026	4%	5,391,528	5,539,302	3%
16/08	13,601,807	14,250,383	5%	19,953,726	20,796,904	4%	6,351,919	6,546,521	3%
01/09	15,363,132	15,925,368	4%	22,501,315	23,342,126	4%	7,138,183	7,416,758	4%
16/09	16,937,206	18,067,140	7%	24,920,066	26,479,524	6%	7,982,860	8,412,384	5%
01/10	18,961,130	20,042,414	6%	27,882,326	29,338,380	5%	8,921,196	9,295,966	4%
16/10	20,545,257	21,398,328	4%	30,137,080	31,328,596	4%	9,591,823	9,930,268	4%
01/11	21,909,293	22,697,049	4%	32,199,541	33,219,435	3%	10,290,248	10,522,386	2%
16/11	22,802,139	23,561,654	3%	33,566,703	34,474,088	3%	10,764,564	10,912,434	1%
01/12	23,611,117	24,031,437	2%	34,702,950	35,201,979	1%	11,091,833	11,170,542	1%
16/12	23,873,691	24,363,330	2%	35,078,181	35,713,229	2%	11,204,490	11,349,899	1%
01/01	23,969,564	24,430,763	2%	35,209,645	35,829,362	2%	11,240,081	11,398,599	1%
16/01	23,991,909	24,430,764	2%	35,245,140	35,832,191	2%	11,253,231	11,401,427	1%
01/02	23,992,722	24,430,765	2%	35,256,499	35,835,985	2%	11,263,777	11,405,220	1%
16/02	24,000,842	24,432,455	2%	35,265,633	35,840,607	2%	11,264,791	11,408,152	1%
01/03	24,005,709	24,434,093	2%	35,284,809	35,845,626	2%	11,279,100	11,411,533	1%
16/03	24,058,865	24,467,170	2%	35,357,421	35,893,282	2%	11,298,556	11,426,112	1%
01/04	24,248,144	24,591,393	1%	35,627,519	36,059,507	1%	11,379,375	11,468,114	1%

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		
	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)
16/04	738,479	351,700	-52%	1,284,273	686,657	-47%	545,794	334,957	-39%
01/05	1,579,674	851,267	-46%	2,779,862	1,623,057	-42%	1,200,188	771,790	-36%
16/05	2,481,235	1,645,530	-34%	4,404,005	3,110,451	-29%	1,922,770	1,464,921	-24%
01/06	3,195,267	2,249,671	-30%	5,854,411	4,316,001	-26%	2,659,144	2,066,330	-22%
16/06	3,585,403	3,045,738	-15%	6,933,414	5,826,903	-16%	3,348,011	2,781,165	-17%
01/07	4,587,165	3,987,819	-13%	8,880,415	7,628,425	-14%	4,293,250	3,640,606	-15%
16/07	5,560,781	4,944,996	-11%	10,803,082	9,521,663	-12%	5,242,301	4,576,667	-13%
01/08	6,612,866	5,981,669	-10%	12,879,519	11,610,414	-10%	6,266,653	5,628,745	-10%
16/08	7,594,443	6,965,294	-8%	14,822,261	13,565,781	-8%	7,227,818	6,600,487	-9%
01/09	8,472,242	7,813,190	-8%	16,542,215	15,351,019	-7%	8,069,973	7,537,829	-7%
16/09	9,238,920	8,889,197	-4%	18,152,207	17,463,247	-4%	8,913,287	8,574,050	-4%
01/10	10,180,020	9,941,160	-2%	19,967,351	19,500,482	-2%	9,787,331	9,559,322	-2%
16/10	10,955,802	10,743,778	-2%	21,379,468	21,085,147	-1%	10,423,666	10,341,369	-1%
01/11	11,661,218	11,532,808	-1%	22,691,938	22,661,374	0%	11,030,720	11,128,566	1%
16/11	12,155,082	12,086,945	-1%	23,614,462	23,731,610	0%	11,459,380	11,644,665	2%
01/12	12,631,206	12,477,467	-1%	24,409,606	24,533,800	1%	11,778,400	12,056,333	2%
16/12	12,830,035	12,773,124	0%	24,746,794	25,033,430	1%	11,916,759	12,260,306	3%
01/01	12,923,898	12,863,285	0%	24,915,402	25,222,823	1%	11,991,504	12,359,538	3%
16/01	12,951,070	12,864,278	-1%	24,983,218	25,265,156	1%	12,032,148	12,400,878	3%
01/02	12,954,180	12,867,871	-1%	25,027,975	25,332,617	1%	12,073,795	12,464,746	3%
16/02	12,964,604	12,875,040	-1%	25,092,273	25,402,630	1%	12,127,669	12,527,590	3%
01/03	12,975,050	12,880,968	-1%	25,162,989	25,477,806	1%	12,187,939	12,596,838	3%
16/03	13,036,056	12,970,617	-1%	25,324,426	25,663,092	1%	12,288,370	12,692,475	3%
01/04	13,196,876	13,222,807	0%	25,650,777	26,089,458	2%	12,453,901	12,866,651	3%

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		
	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)
16/04	263,997	92,969	-65%	387,350	162,387	-58%	123,353	69,418	-44%
01/05	617,723	285,301	-54%	928,364	496,193	-47%	310,641	210,892	-32%
16/05	1,031,662	664,883	-36%	1,580,198	1,139,153	-28%	548,536	474,270	-14%
01/06	1,366,415	974,460	-29%	2,153,983	1,692,993	-21%	787,568	718,533	-9%
16/06	1,548,918	1,376,947	-11%	2,590,879	2,387,476	-8%	1,041,961	1,010,529	-3%
01/07	2,039,097	1,845,524	-9%	3,427,652	3,221,162	-6%	1,388,555	1,375,638	-1%
16/07	2,519,640	2,314,464	-8%	4,275,332	4,067,108	-5%	1,755,692	1,752,644	0%
01/08	3,032,975	2,833,121	-7%	5,190,367	5,006,690	-4%	2,157,392	2,173,569	1%
16/08	3,480,789	3,312,822	-5%	6,009,092	5,869,440	-2%	2,528,303	2,556,618	1%
01/09	3,901,951	3,728,658	-4%	6,742,664	6,625,568	-2%	2,840,713	2,896,910	2%
16/09	4,277,966	4,229,318	-1%	7,447,953	7,512,322	1%	3,169,987	3,283,004	4%
01/10	4,740,071	4,744,492	0%	8,257,341	8,408,657	2%	3,517,270	3,664,165	4%
16/10	5,131,394	5,146,898	0%	8,922,061	9,094,173	2%	3,790,667	3,947,275	4%
01/11	5,488,930	5,536,038	1%	9,548,125	9,741,306	2%	4,059,195	4,205,268	4%
16/11	5,748,981	5,820,522	1%	10,007,026	10,206,037	2%	4,258,045	4,385,515	3%
01/12	5,991,565	6,004,313	0%	10,368,924	10,506,721	1%	4,377,359	4,502,408	3%
16/12	6,073,893	6,106,760	1%	10,491,605	10,650,083	2%	4,417,712	4,543,323	3%
01/01	6,105,137	6,119,162	0%	10,542,890	10,656,233	1%	4,437,753	4,537,071	2%
16/01	6,116,305	6,114,799	0%	10,561,865	10,658,043	1%	4,445,560	4,543,244	2%
01/02	6,116,855	6,081,953	-1%	10,571,225	10,608,998	0%	4,454,370	4,527,045	2%
16/02	6,108,141	6,032,572	-1%	10,553,856	10,540,134	0%	4,445,715	4,507,562	1%
01/03	6,106,598	6,011,419	-2%	10,555,924	10,505,907	0%	4,449,326	4,494,488	1%
16/03	6,107,762	5,970,373	-2%	10,574,049	10,435,986	-1%	4,466,287	4,465,613	0%
01/04	6,151,009	5,963,133	-3%	10,652,565	10,418,983	-2%	4,501,556	4,455,850	-1%

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		
	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)	2016/2017	2017/2018	Var. (%)
16/04	474,482	258,731	-45%	896,923	524,270	-42%	422,441	265,539	-37%
01/05	961,951	565,966	-41%	1,851,498	1,126,864	-39%	889,547	560,898	-37%
16/05	1,449,573	980,647	-32%	2,823,807	1,971,298	-30%	1,374,234	990,651	-28%
01/06	1,828,852	1,275,211	-30%	3,700,428	2,623,008	-29%	1,871,576	1,347,797	-28%
16/06	2,036,485	1,668,791	-18%	4,342,535	3,439,427	-21%	2,306,050	1,770,636	-23%
01/07	2,548,068	2,142,295	-16%	5,452,763	4,407,263	-19%	2,904,695	2,264,968	-22%
16/07	3,041,141	2,630,532	-14%	6,527,750	5,454,555	-16%	3,486,609	2,824,023	-19%
01/08	3,579,891	3,148,548	-12%	7,689,152	6,603,724	-14%	4,109,261	3,455,176	-16%
16/08	4,113,654	3,652,472	-11%	8,813,169	7,696,341	-13%	4,699,515	4,043,869	-14%
01/09	4,570,291	4,084,532	-11%	9,799,551	8,725,451	-11%	5,229,260	4,640,919	-11%
16/09	4,960,954	4,659,879	-6%	10,704,254	9,950,925	-7%	5,743,300	5,291,046	-8%
01/10	5,439,949	5,196,668	-4%	11,710,010	11,091,825	-5%	6,270,061	5,895,157	-6%
16/10	5,824,408	5,596,880	-4%	12,457,407	11,990,974	-4%	6,632,999	6,394,094	-4%
01/11	6,172,288	5,996,770	-3%	13,143,813	12,920,068	-2%	6,971,525	6,923,298	-1%
16/11	6,406,101	6,266,423	-2%	13,607,436	13,525,573	-1%	7,201,335	7,259,150	1%
01/12	6,639,641	6,473,154	-3%	14,040,682	14,027,079	0%	7,401,041	7,553,925	2%
16/12	6,756,142	6,666,364	-1%	14,255,189	14,383,347	1%	7,499,047	7,716,983	3%
01/01	6,818,761	6,744,123	-1%	14,372,512	14,566,590	1%	7,553,751	7,822,467	4%
16/01	6,834,765	6,749,479	-1%	14,421,353	14,607,113	1%	7,586,588	7,857,634	4%
01/02	6,837,325	6,785,918	-1%	14,456,750	14,723,619	2%	7,619,425	7,937,701	4%
16/02	6,856,463	6,842,468	0%	14,538,417	14,862,496	2%	7,681,954	8,020,028	4%
01/03	6,868,452	6,869,549	0%	14,607,065	14,971,899	2%	7,738,613	8,102,350	5%
16/03	6,928,294	7,000,244	1%	14,750,377	15,227,106	3%	7,822,083	8,226,862	5%
01/04	7,045,867	7,259,674	3%	14,998,212	15,670,475	4%	7,952,345	8,410,801	6%

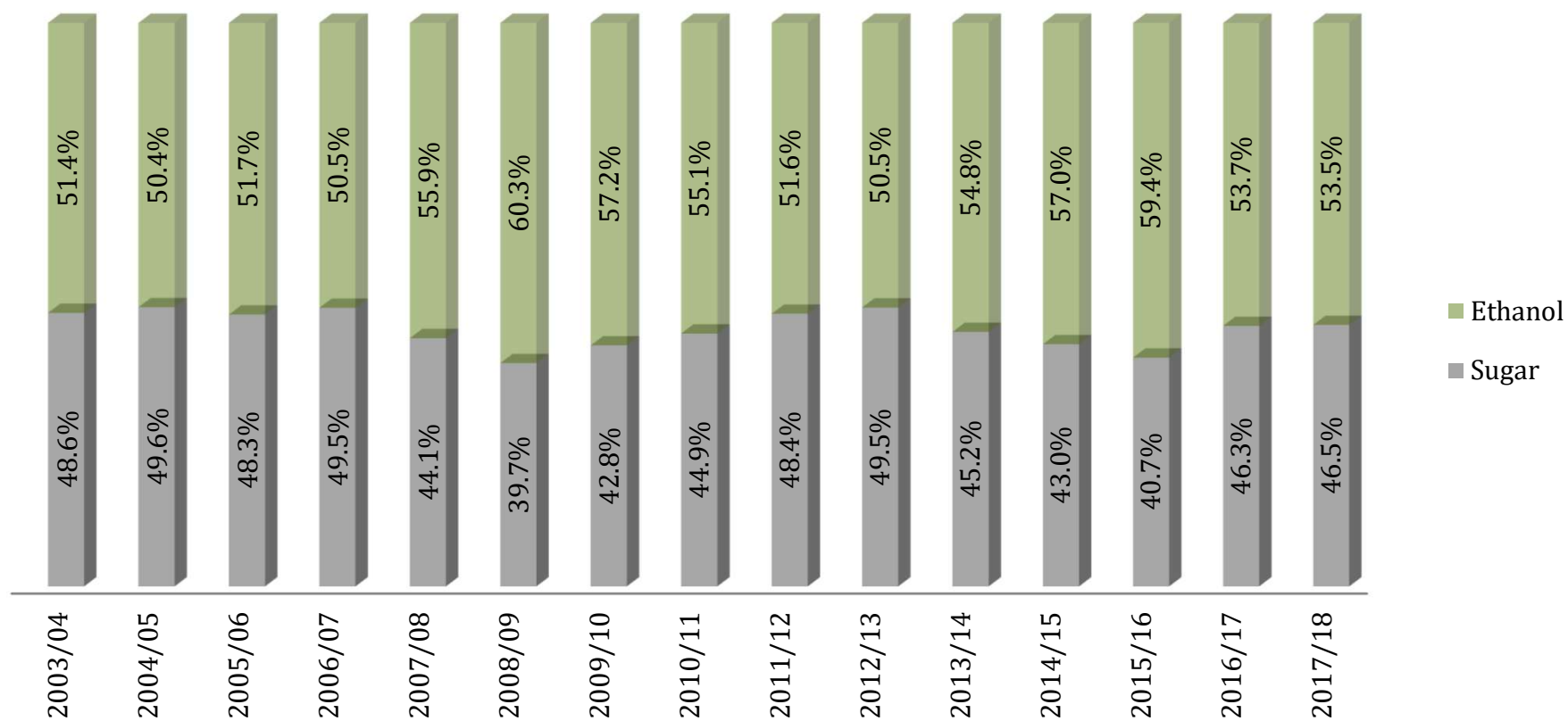
Source: UNICA. Note: data include the volume of reprocessed ethanol and corn ethanol production.

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

Bi-weekly period	ETHANOL MIX (%)					
	São Paulo State		South-Central region		Others states	
	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
16/04	54.36	53.23	58.97	60.63	66.78	71.46
01/05	51.38	50.68	57.09	56.94	66.82	66.68
16/05	49.25	46.56	55.99	53.19	67.64	63.80
01/06	50.27	45.62	58.23	52.55	68.91	62.23
16/06	48.73	43.69	59.27	50.62	67.60	61.68
01/07	46.26	42.99	53.01	49.48	62.81	59.44
16/07	45.31	42.64	52.34	49.59	62.37	59.70
01/08	44.57	42.13	51.95	49.65	62.74	60.48
16/08	44.19	42.59	51.43	49.92	61.83	60.71
01/09	44.83	45.23	52.25	53.03	63.30	63.13
16/09	44.27	45.01	51.91	52.02	61.70	62.34
01/10	43.13	46.49	49.85	53.45	60.03	63.94
16/10	44.42	49.14	50.38	56.12	60.41	66.09
01/11	45.78	49.78	50.71	57.15	58.14	67.59
16/11	47.47	51.14	52.05	57.62	58.80	67.26
01/12	49.00	57.53	52.85	63.42	60.27	70.80
16/12	55.18	59.09	58.18	59.82	63.82	61.11

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	
	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
16/04	111.14	105.83	111.67	106.63	112.58	107.82
01/05	121.49	112.94	122.41	113.76	124.00	115.05
16/05	124.15	122.34	124.42	122.98	124.88	124.01
01/06	130.03	122.83	130.41	122.75	130.93	122.65
16/06	111.13	128.64	119.26	128.54	126.60	128.38
01/07	127.70	129.26	129.80	129.94	132.98	131.01
16/07	130.21	134.12	132.95	135.07	137.05	136.47
01/08	135.01	139.16	137.71	140.21	141.85	141.76
16/08	139.90	144.90	142.63	146.22	146.75	148.20
01/09	143.21	143.92	145.07	145.53	147.93	147.67
16/09	134.95	148.91	139.35	150.92	145.43	153.97
01/10	142.61	158.10	145.77	159.30	150.83	161.14
16/10	147.52	144.09	148.15	146.39	149.22	149.80
01/11	137.66	153.75	138.03	153.64	138.60	153.49
16/11	137.65	131.02	137.44	132.51	137.12	134.78
01/12	126.85	135.48	128.51	136.77	131.84	138.41
16/12	131.01	126.52	130.26	126.98	128.88	127.81

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

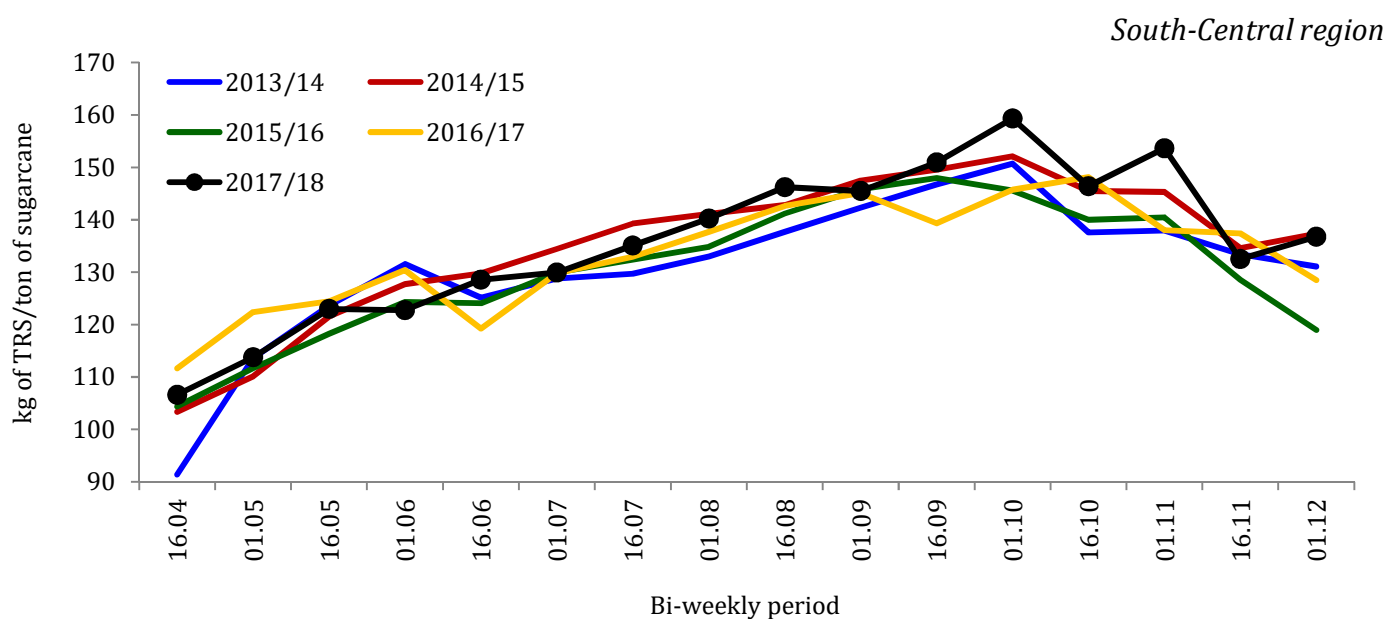


Table 11. Historical series of sugarcane quality (kg of TRS per ton of sugarcane) and the number of new mills and closed mills, per harvest season, in South-Central region.

Harvest season	Average TRS (kg TRS/ ton of sugarcane)	Number of new mills	Number of closed mills
2007/2008	143.63	22	3
2008/2009	140.11	29	3
2009/2010	129.36	21	3
2010/2011	140.88	10	4
2011/2012	137.64	4	16
2012/2013	135.46	2	13
2013/2014	133.27	2	10
2014/2015	136.45	0	9
2015/2016	130.50	2	8
2016/2017	133.03	1	6
2017/2018	136.59	1	4

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	
		2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
Total ethanol	Apr	2,073,057	1,732,294	61,598	109,043	2,011,459	1,623,251
	May	2,394,252	2,129,618	213,297	124,756	2,180,955	2,004,862
	Jun	2,474,207	2,131,144	240,748	149,465	2,233,459	1,981,679
	Jul	2,405,724	2,139,588	168,328	185,828	2,237,396	1,953,760
	Aug	2,472,073	2,396,846	150,489	194,116	2,321,584	2,202,730
	Sep	2,342,285	2,332,547	105,809	157,141	2,236,476	2,175,406
	Oct	2,138,285	2,475,397	74,455	167,703	2,063,830	2,307,694
	Nov	1,960,603	2,344,081	53,890	89,953	1,906,713	2,254,128
	Dec	2,120,424	2,322,908	76,472	83,171	2,043,952	2,239,737
	Jan	1,863,540	2,241,137	90,618	94,156	1,772,922	2,146,981
	Feb	1,679,094	1,967,722	39,808	76,474	1,639,286	1,891,248
	Mar	2,044,819	2,228,669	81,899	73,194	1,962,920	2,155,475
	Total	25,968,363	26,441,951	1,357,411	1,505,000	24,610,952	24,936,951
Anhydrous ethanol	Apr	875,407	768,832	54,958	107,558	820,449	661,274
	May	956,517	916,958	129,606	77,653	826,911	839,305
	Jun	953,910	945,011	92,221	105,077	861,689	839,934
	Jul	957,521	976,725	93,161	141,656	864,360	835,069
	Aug	950,144	910,830	74,263	83,865	875,881	826,965
	Sep	868,850	899,613	36,947	116,138	831,903	783,475
	Oct	865,712	931,347	32,438	136,045	833,274	795,302
	Nov	910,320	842,733	43,227	55,554	867,093	787,179
	Dec	970,427	862,983	53,379	53,460	917,048	809,523
	Jan	963,710	851,941	88,075	87,125	875,635	764,816
	Feb	837,622	777,839	34,815	57,508	802,807	720,331
	Mar	970,058	844,923	71,065	71,047	898,993	773,876
	Total	11,080,198	10,529,735	804,155	1,092,686	10,276,043	9,437,049
Hydrous ethanol	Apr	1,197,650	963,462	6,640	1,485	1,191,010	961,977
	May	1,437,735	1,212,660	83,691	47,103	1,354,044	1,165,557
	Jun	1,520,297	1,186,133	148,527	44,388	1,371,770	1,141,745
	Jul	1,448,203	1,162,863	75,167	44,172	1,373,036	1,118,691
	Aug	1,521,929	1,486,016	76,226	110,251	1,445,703	1,375,765
	Sep	1,473,435	1,432,934	68,862	41,003	1,404,573	1,391,931
	Oct	1,272,573	1,544,050	42,017	31,658	1,230,556	1,512,392
	Nov	1,050,283	1,501,348	10,663	34,399	1,039,620	1,466,949
	Dec	1,149,997	1,459,925	23,093	29,711	1,126,904	1,430,214
	Jan	899,830	1,389,196	2,543	7,031	897,287	1,382,165
	Feb	841,472	1,189,883	4,993	18,966	836,479	1,170,917
	Mar	1,074,761	1,383,746	10,834	2,147	1,063,927	1,381,599
	Total	14,888,165	15,912,216	553,256	412,314	14,334,909	15,499,902

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.

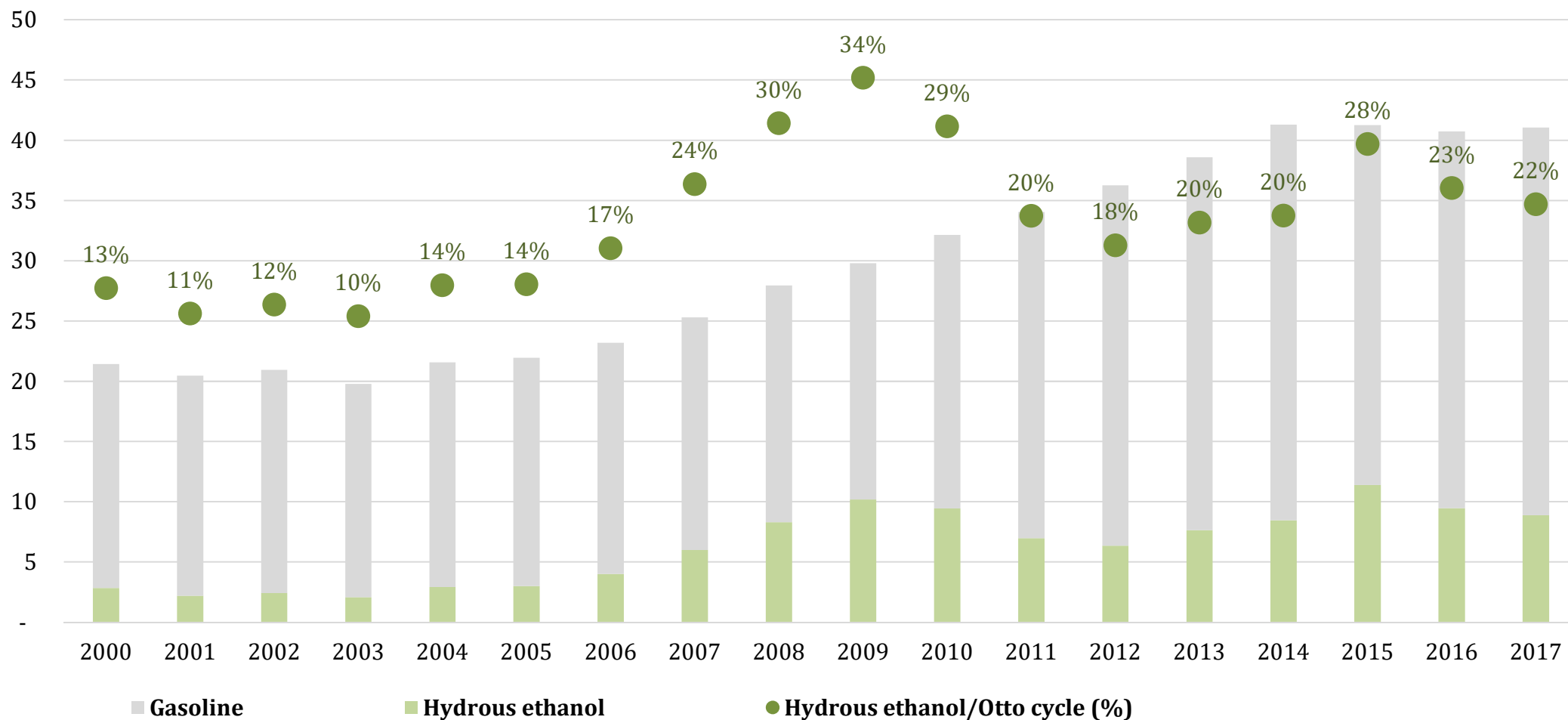
Table 13. Monthly sales by mills in South-Central region - ethanol for other uses (m³)

Product	Month	Total				Anhydrous ethanol				Hydrous ethanol			
		2016/2017	2017/2018	Var. (%)		2016/2017	2017/2018	Var. (%)		2016/2017	2017/2018	Var. (%)	
Ethanol for other uses	Apr	58,902	59,104	↑	0.34%	12,042	10,224	↓	-15.10%	46,860	48,880	↑	4.31%
	May	62,244	88,997	↑	42.98%	12,300	11,816	↓	-3.93%	49,944	77,181	↑	54.54%
	Jun	66,611	79,526	↑	19.39%	14,830	11,509	↓	-22.39%	51,781	68,017	↑	31.36%
	Jul	66,335	77,826	↑	17.32%	12,023	9,694	↓	-19.37%	54,312	68,132	↑	25.45%
	Aug	66,026	84,650	↑	28.21%	11,158	9,879	↓	-11.46%	54,868	74,771	↑	36.27%
	Sep	66,810	81,598	↑	22.13%	11,629	9,090	↓	-21.83%	55,181	72,508	↑	31.40%
	Oct	71,834	86,545	↑	20.48%	12,889	11,962	↓	-7.19%	58,945	74,583	↑	26.53%
	Nov	68,146	78,604	↑	15.35%	14,845	10,939	↓	-26.31%	53,301	67,665	↑	26.95%
	Dec	75,389	63,795	↓	-15.38%	11,293	10,183	↓	-9.83%	64,096	53,612	↓	-16.36%
	Jan	60,418	73,768	↑	22.10%	10,480	13,852	↑	32.18%	49,938	59,916	↑	19.98%
	Feb	59,362	65,536	↑	10.40%	13,478	13,251	↓	-1.68%	45,884	52,285	↑	13.95%
	Mar	63,292	76,995	↑	21.65%	12,759	15,659	↑	22.73%	50,533	61,336	↑	21.38%
Total		785,369	916,944	↑	16.75%	149,726	138,058	↓	-7.79%	635,643	778,886	↑	22.54%

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. (%)	
	2016/2017	2017/2018		
April	1,463	1,486	↑	1.60%
May	1,884	2,262	↑	20.05%
June	2,601	3,028	↑	16.44%
July	2,857	2,574	↓	-9.90%
August	2,964	2,734	↓	-7.76%
September	3,170	3,489	↑	10.06%
October	2,120	2,800	↑	32.06%
November	2,305	2,065	↓	-10.41%
December	2,372	1,740	↓	-26.64%
January	2,036	1,392	↓	-31.64%
February	1,628	1,292	↓	-20.67%
March	1,430	1,622	↑	13.37%
Total	26,831	26,484	↓	-1.29%

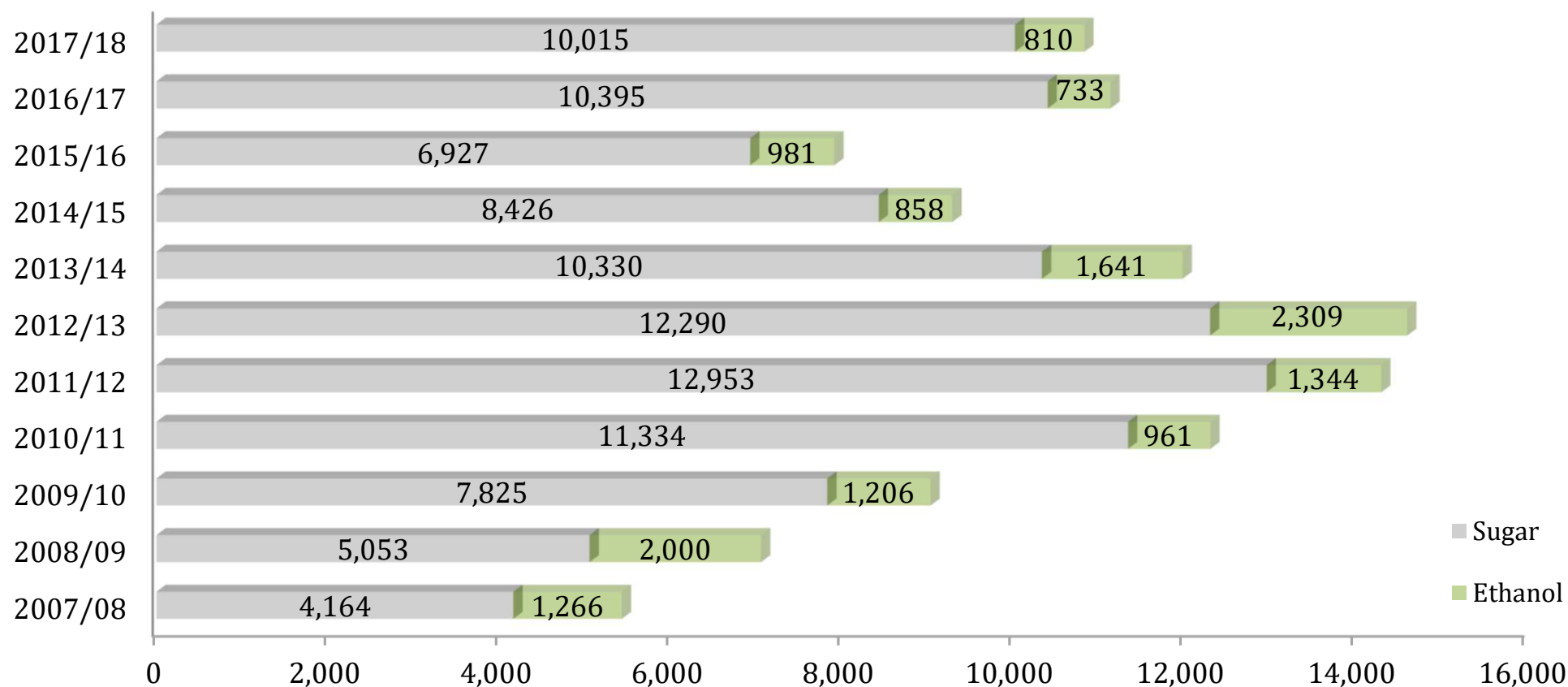
Source: Secex. Elaboration: UNICA.

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

Month	Harvest season		Var. (%)	
	2016/2017	2017/2018		
April	19,777	13	↓	-100%
May	25	18	↓	-27%
June	27	45	↑	64%
July	0	26	↑	
August	5	25	↑	
September	0	62	↑	
October	0	39	↑	
November	10,419	14,863	↑	43%
December	39,829	19,857	↓	-50%
January	24,146	45,478	↑	88%
February	50,898	48,373	↓	-5%
March	89,697	102,698	↑	14%
Total	234,823	231,497	↓	-1%
Share of ethanol imports from USA (%)	98.79%	99.87%		
Imports as a share of ethanol consumption (%)	1.09%	1.04%		

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	
	2016/2017	2017/2018	2016/2017	2017/2018
Apr	8.6	17.5	17.1	24.1
May	7.0	2.6	61.1	80.8
Jun	9.9	1.0	99.6	83.1
Jul	2.7	1.1	93.1	104.2
Aug	2.7	1.4	93.9	105.7
Sep	0.7	0.3	109.2	91.6
Oct	0.4	1.2	118.8	109.3
Nov	1.5	1.8	122.2	128.5
Dec	3.4	40.9	36.7	22.0
Jan	6.4	64.9	5.1	1.0
Feb	36.4	126.4	0.4	13.2
Mar	18.4	157.2	4.2	1.6
Total	98.1	416.3	761.3	765.3

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, 2017	840	684	1,524
Production during 2017/2018 harvest season - beginning in 04/01/2017*	10,467	15,670	26,138
Sales to domestic market - April 2017 to March of 2018	9,437	15,500	24,937
<i>Sales of fuel ethanol</i>	<i>9,243</i>	<i>14,578</i>	<i>23,821</i>
<i>Sales of ethanol for industrial purposes and to own consumption by mills</i>	<i>194</i>	<i>922</i>	<i>1,116</i>
Sales to external market - April 2017 to March of 2018	1,093	412	1,505
Stock in April 1, 2018	778	442	1,220

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.

	2016/2017	2017/2018	Var. (%)	
Initial stock	2,215	2,368	↑	6.90%
Production	35,628	36,060	↑	1.21%
Exports*	26,831	26,484	↓	-1.29%
Domestic market**	8,644	8,842	↑	2.30%
Final stock	2,368	3,101	↑	30.96%

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
2016/2017	131.20	89.73	97.10	81.40
2017/2018	135.54	79.98	78.82	81.31

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

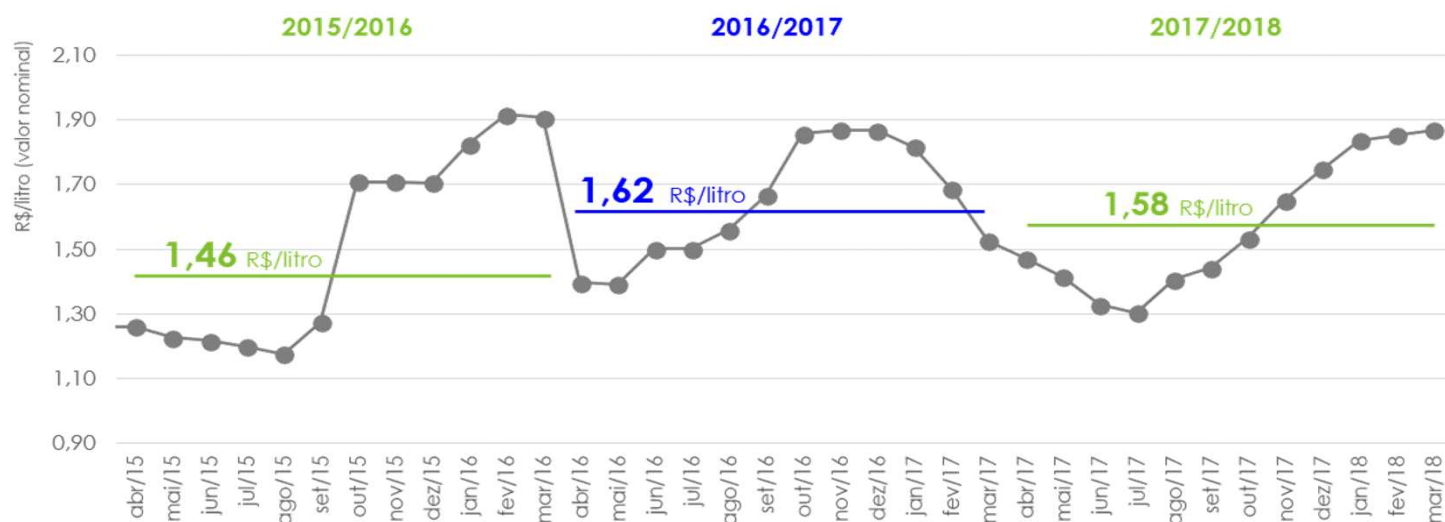
Table 20. Corn ethanol production in South Central region during 2017/2018 harvest season (m³).

Bi-weekly period	CORN ETHANOL PRODUCTION					
	Bi-weekly production			Accumulated production		
	Anhydrous	Hydrous	Total	Anhydrous	Hydrous	Total
16/04	49	11,704	11,753	49	11,704	11,753
01/05	1,429	11,685	13,114	1,478	23,389	24,867
16/05	2,081	7,768	9,849	3,559	31,157	34,716
01/06	1,323	8,773	10,096	4,882	39,930	44,812
16/06	1,320	6,224	7,544	6,202	46,154	52,356
01/07	2,134	5,091	7,225	8,336	51,245	59,581
16/07	5,014	6,847	11,861	13,350	58,092	71,442
01/08	6,381	8,786	15,167	19,731	66,878	86,609
16/08	6,294	7,553	13,847	26,025	74,431	100,456
01/09	9,053	9,720	18,773	35,078	84,151	119,229
16/09	9,074	11,538	20,612	44,152	95,689	139,841
01/10	4,421	16,422	20,843	48,573	112,111	160,684
16/10	2,618	17,721	20,339	51,191	129,832	181,023
01/11	1,144	24,009	25,153	52,335	153,841	206,176
16/11	1,334	20,880	22,214	53,669	174,721	228,390
01/12	2,080	22,818	24,898	55,749	197,539	253,288
16/12	2,660	26,496	29,156	58,409	224,035	282,444
01/01	4,525	32,140	36,665	62,934	256,175	319,109
16/01	5,178	28,368	33,546	68,112	284,543	352,655
01/02	1,673	37,524	39,197	69,785	322,067	391,852
16/02	5,579	29,212	34,791	75,364	351,279	426,643
01/03	3,248	28,892	32,140	78,612	380,171	458,783
16/03	3,856	27,500	31,356	82,468	407,671	490,139
01/04	7,923	23,423	31,346	90,391	431,094	521,485

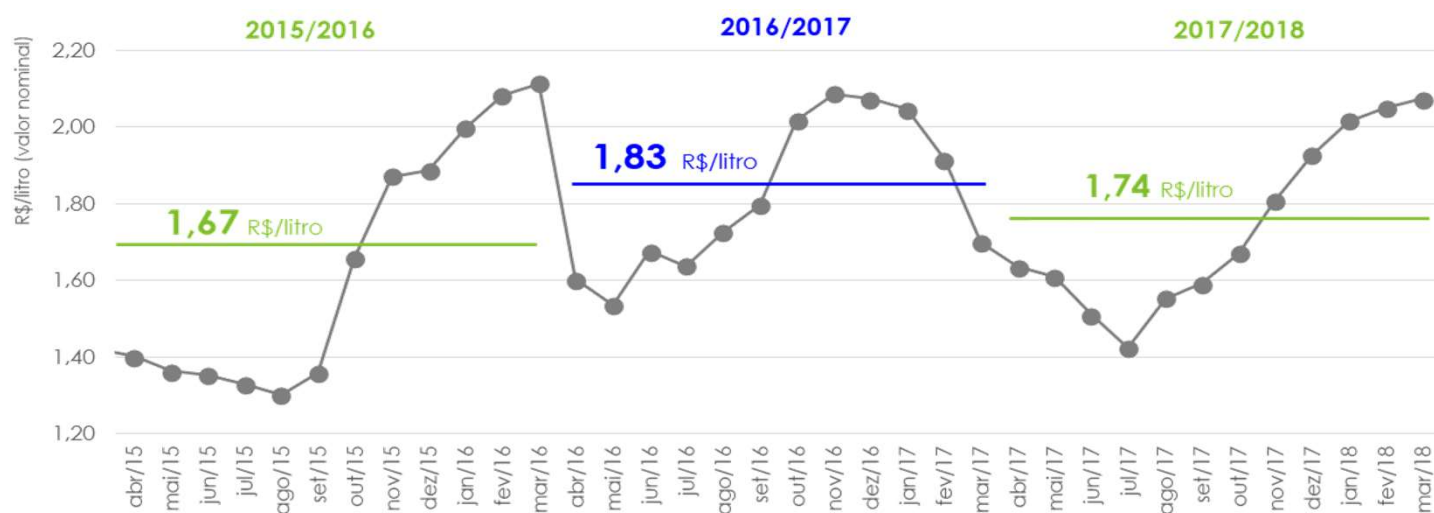
Source: UNICA.

Monthly prices received by producers in São Paulo state - ethanol

Fuel hydrous ethanol (R\$/liter)



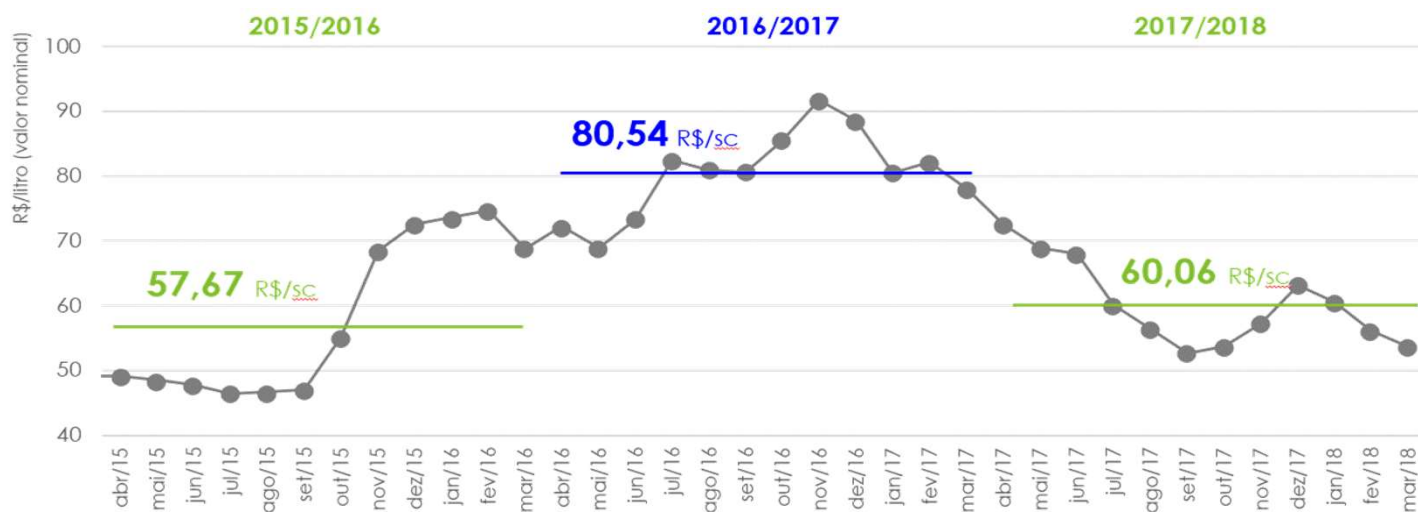
Fuel anhydrous ethanol (R\$/liter)



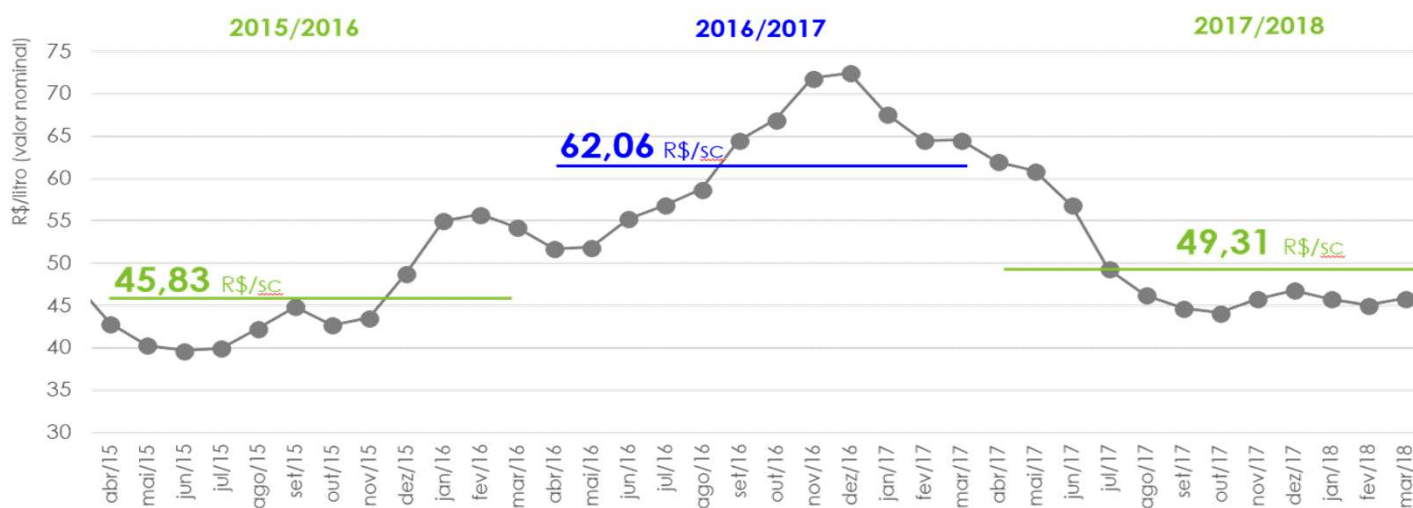
Source: CEPEA. Elaboration: UNICA. Note: prices minus freight charges and taxes; highlighted values refer to the average prices of the harvest season and they are calculated considering the trading curve published by Consecana; nominal values.

Monthly prices received by producers in São Paulo state - sugar

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



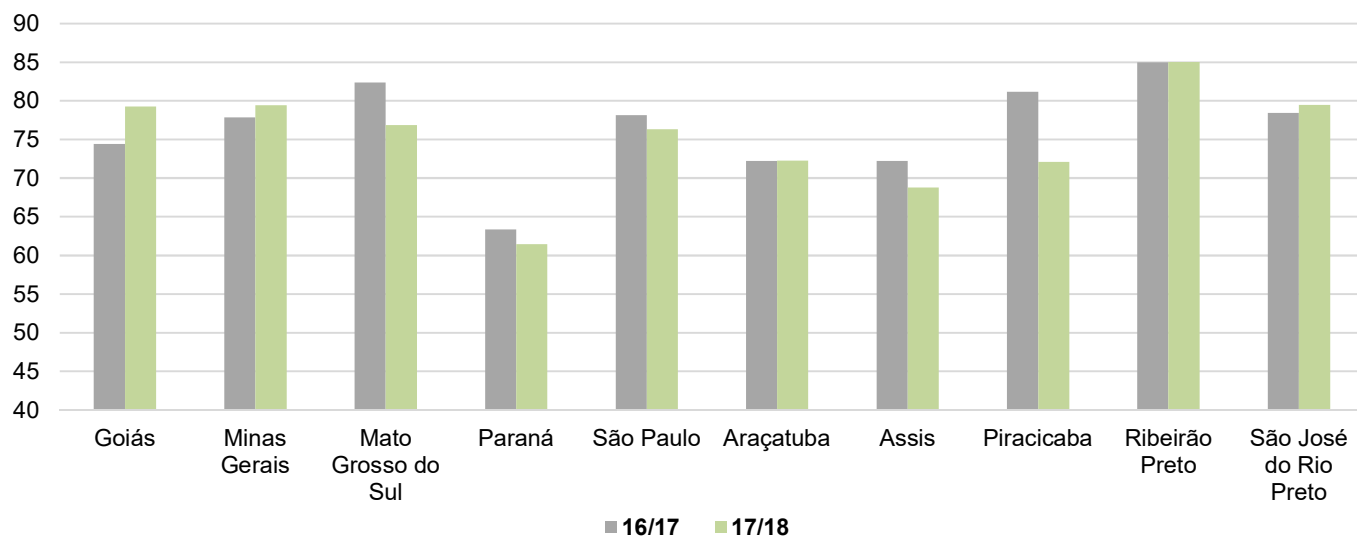
Raw sugar - external market (R\$/ 50 kg bag)



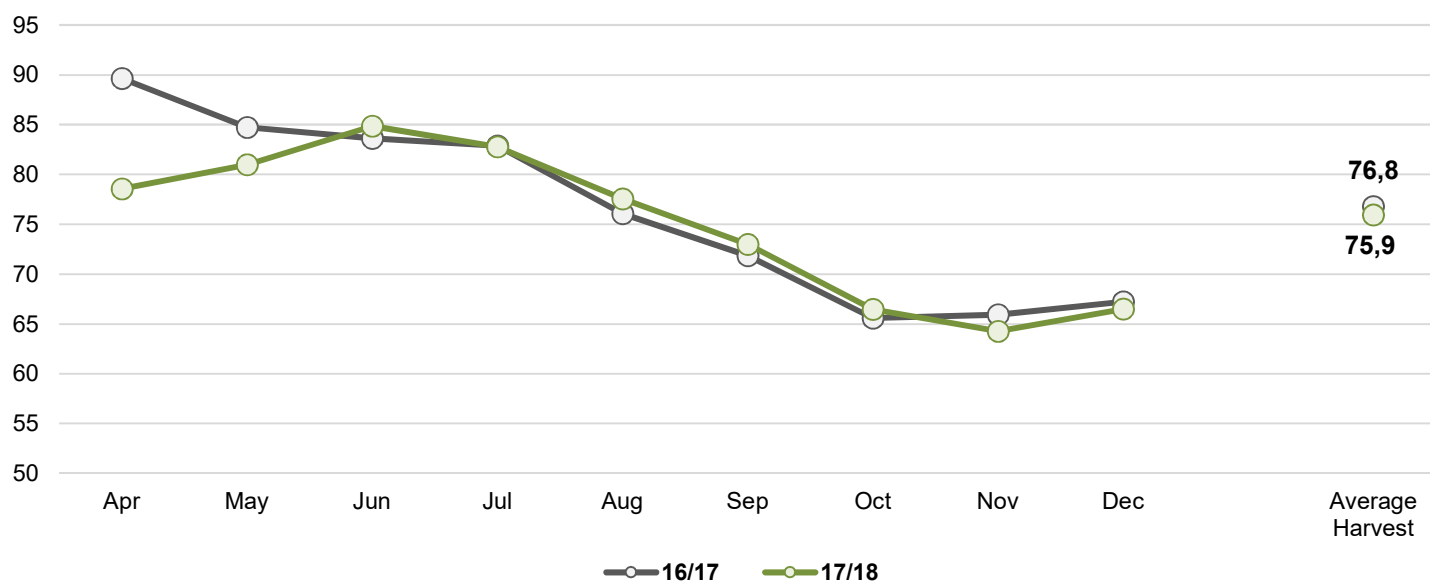
Source: CEPEA. Elaboration: UNICA. Note: prices minus freight charges but include taxes; highlighted values refer to the average prices of the harvest season and they are calculated considering the trading curve published by Consecana; nominal values.

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

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

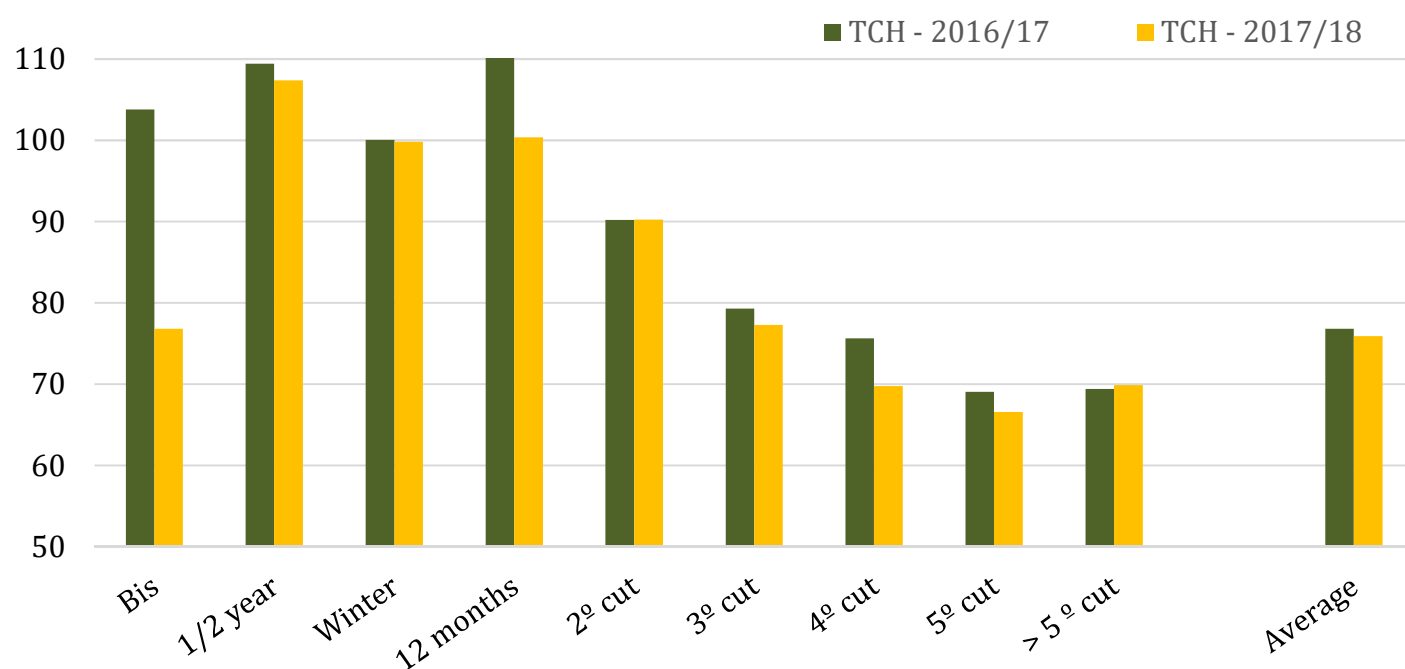


Monthly agricultural productivity - South-Central region of Brazil

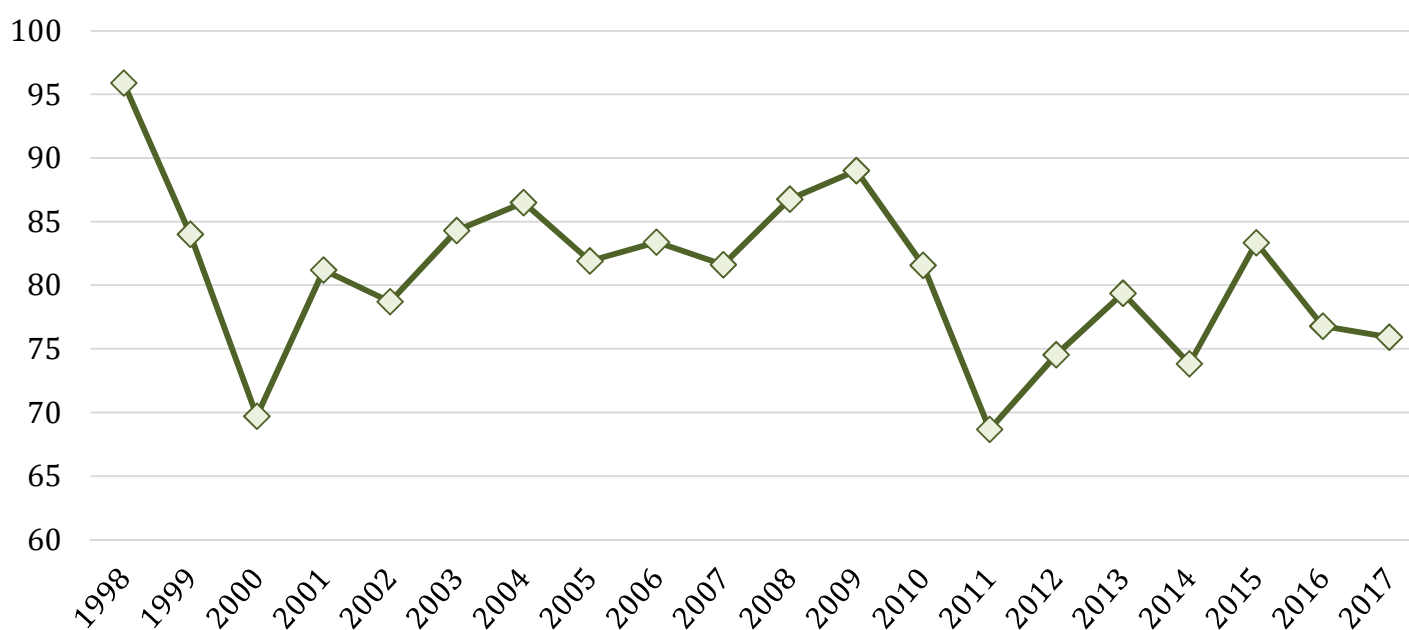


Agricultural productivity in South-Central region of Brazil. Values in tonnes of sugarcane per hectare.

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);*
- *Ethanol and sugar industry association of Rio de Janeiro (SISERJ).*

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

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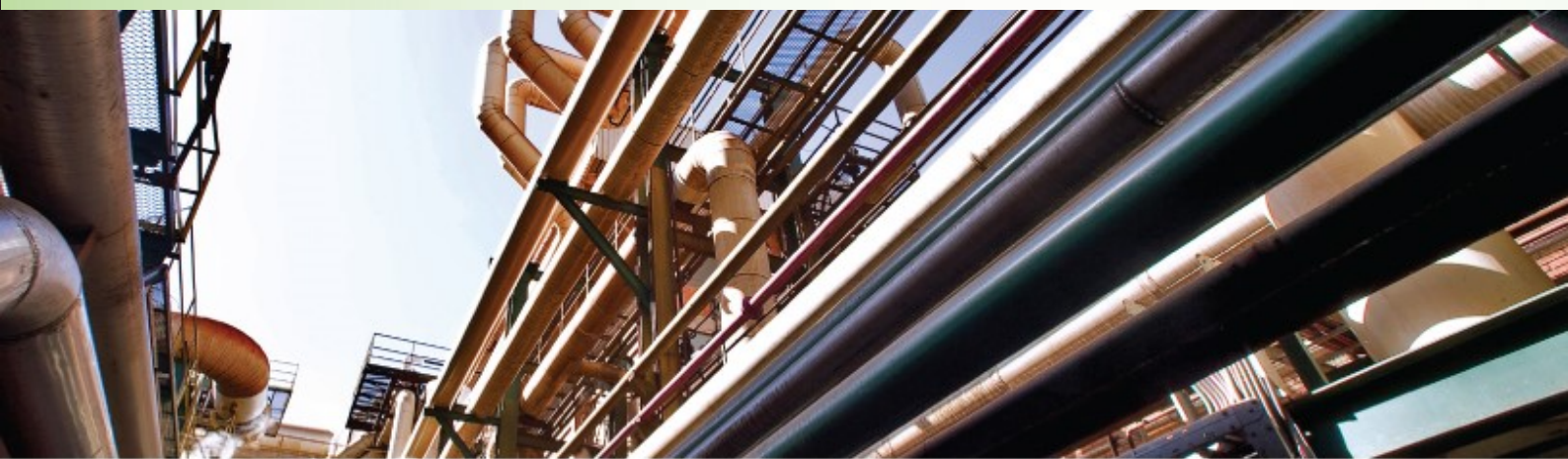
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