August 3rd, 2011

BIOTECHNOLOGY REPORT

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- ***The first monitoring report of the biotechnology adopted in the 2011/12 crop period indicates that Brazilian soybean farmers will plant some 20.8 million hectares, or 82.7% of the total forecast area.***
- ***If this area is confirmed, we shall have growth of 13.4% relative to the amount planted to transgenic soybeans in the previous crop.***
- ***For cotton, it is estimated that 606,000 hectares, or 39% of the forecast area, will be planted with transgenic material, an increase of 62.7% compared with the previous crop.***
- ***In the case of summer corn, the area planted to transgenic material - 4.5 million hectares - has broken the 50% barrier in total area and represents an increase of 32.3% when compared with the previous crop.***
- ***For winter corn, on the other hand, the area planted to transgenic crops will occupy 4.6 million hectares, or 80.4% of the total area.***
- ***In the overall total for corn, the area planted to hybrid transgenic crops will occupy 9.1 million hectares, or 64.9% of the total area currently forecast for planting in 2011/12.***

1 SOYBEAN

- ***Assuming that the tendency of the last few years is maintained, Brazil's soybean farmers are likely to increase their adoption of transgenic soybeans in the 2011/12 crop, as shown by the data in the first monitoring report we produced regarding the adoption of agricultural biotechnology in Brazil for the 2011/12 crop.***
- ***While we estimated that expansion of the area sown to soybeans would be 3.6%, going from 24.2 million to 25.0 million hectares, the area sown with transgenic varieties will grow by 13.4%, going from 18.4 million hectares to 20.8 million hectares, or 82.7% of the total forecast area.***
- ***In our analysis of regional participation, it is worth highlighting that in absolute numbers the planted area in the Center-West region has surpassed that of the South region for the first time, and now occupies the biggest area planted out to transgenic soybeans in Brazil, with 8.8 million hectares. As a percentage share, the South region is still in the lead, with 90.5% of the total area planted to transgenic varieties.***
- ***As for technology, this is the first year in which we have considered the planting of varieties of soybean with combined gene technology, which includes insect-resistance and herbicide-tolerance. But it is important to stress that these initial hectares are essentially being earmarked for the production of seed and that planting on a commercial scale is really likely to begin in the 2012/13 agricultural year.***
- ***From the institutional point of view, the last twelve months have been extremely expressive, with CTNBio approving one new biotechnology event for soybeans, always remembering that Brazil was the first country in the world to make a combined genes event available in the market.***
- ***With such approvals the total number of events registered for soybeans in Brazil has reached five, of whichfour are events that include herbicide tolerance (HT) and one with combined genes (IR/HT), from three different holders of the technology. The increase in approvals of new technologies is making possible a scenario that provides soybean growers with more possible alternatives for agro-economic management.***
- ***Continuous growth in the adoption of biotechnology in Brazilian soybean crops should be understood as resulting from constant improvement and the launch of new varieties with this technology, which is adapted to the country's different production regions.***

GM soybean plantings in Brazil - 2011/12 - 1st survey

	Planted Area (,000 ha)	Yield (kg/ha)	Production (,000 t)	Adoption rate (as % of total area)				Planted area with biotech traits (,000 ha)			
				IR	HT	IR/HT	Total	IR	HT	IR/HT	Total
NORTH	**712.8**	**3,102.2**	**2,211**	**0.0%**	**62.3%**	**0.0%**	**62.3%**	**0**	**444**	**0**	**444**
NOTHEAST	**2,070.0**	**3,102.6**	**6,422**	**0.0%**	**78.8%**	**0.6%**	**79.4%**	**0**	**1,632**	**12**	**1,644**
Maranhão	550.0	3,245.0	1,785	0.0%	72.8%	0.0%	72.8%	0	401	0	401
Piauí	390.0	2,932.9	1,144	0.0%	69.4%	0.0%	69.4%	0	270	0	270
Bahia	1,130.0	3,091.9	3,494	0.0%	85.0%	1.1%	86.1%	0	961	12	973
SOUTHEAST	**1,740.0**	**2,896.5**	**5,040**	**0.0%**	**80.0%**	**0.6%**	**80.6%**	**0**	**1,392**	**10**	**1,402**
Minas Gerais	1,100.0	3,049.6	3,355	0.0%	80.0%	0.5%	80.5%	0	880	6	886
São Paulo	640.0	2,633.3	1,685	0.0%	80.0%	0.6%	80.6%	0	512	4	516
SOUTH	**9,230.0**	**2,762.0**	**25,493**	**0.0%**	**90.3%**	**0.1%**	**90.5%**	**0**	**8,338**	**13**	**8,351**
Paraná	4,590.0	3,145.1	14,436	0.0%	82.0%	0.2%	82.2%	0	3,764	8	3,772
Santa Catarina	490.0	3,033.4	1,486	0.0%	96.9%	0.0%	96.9%	0	475	0	475
Rio Grande do Sul	4,150.0	2,306.1	9,570	0.0%	98.8%	0.1%	98.9%	0	4,099	5	4,104
CENTRAL-WEST	**11,260.0**	**3,216.7**	**36,220**	**0.0%**	**78.3%**	**0.3%**	**78.5%**	**0**	**8,811**	**31**	**8,842**
Mato Grosso	6,650.0	3,329.7	22,143	0.0%	76.0%	0.3%	76.3%	0	5,054	20	5,074
Mato Grosso do Sul	1,900.0	2,799.2	5,318	0.0%	80.8%	0.2%	80.9%	0	1,535	3	1,538
Goiás	2,650.0	3,231.2	8,563	0.0%	82.0%	0.3%	82.3%	0	2,173	8	2,181
Distrito Federal	60.0	3,273.9	196	0.0%	82.0%	0.0%	82.0%	0	49	0	49
N/NE	**2,782.8**	**3,102.5**	**8,634**	**0.0%**	**74.6%**	**0.4%**	**75.0%**	**0**	**2,076**	**12**	**2,088**
C-SUL	**22,230.0**	**3,002.8**	**66,753**	**0.0%**	**83.4%**	**0.2%**	**83.6%**	**0**	**18,541**	**54**	**18,595**
BRAZIL	**25,012.8**	**3,013.9**	**75,386**	**0.0%**	**82.4%**	**0.3%**	**82.7%**	**0**	**20,617**	**66**	**20,683**

Source: CÉLERES * Updated on: August, 3rd, 2011

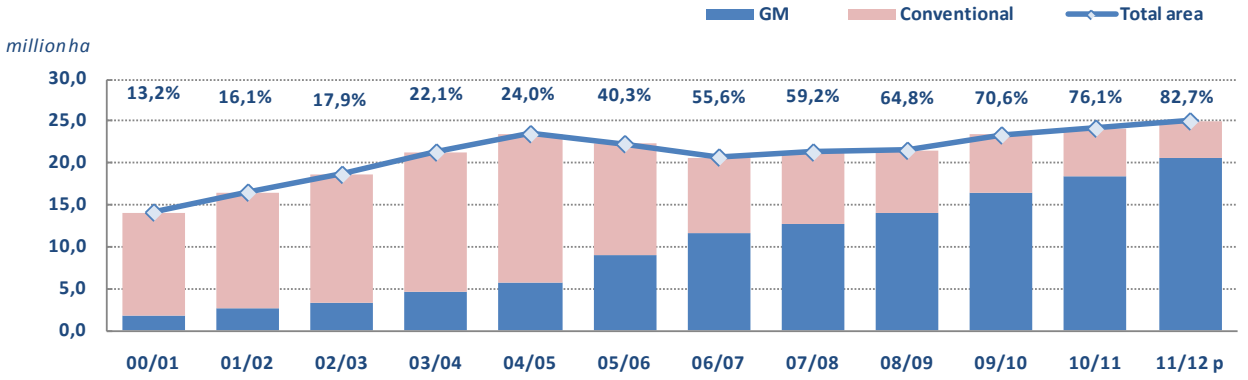
- ***Because of adjustments in the area of soybeans grown in the 2010/11 season, in this monitoring report we have also adjusted the numbers of the adoption of transgenic soybeans for this crop, which is now estimated at 18.4 million hectares, growth of 1.7% relative to our last estimate.***

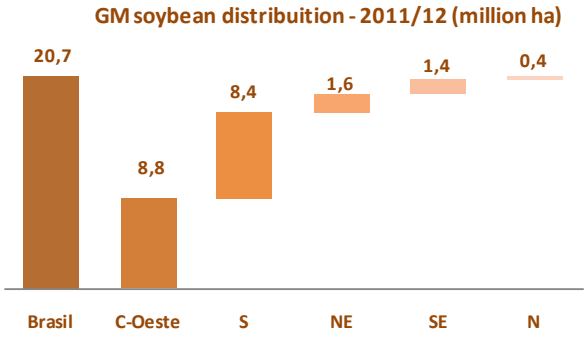
- ***With this actual area, the increase in the adoption of transgenic soybeans in the 2010/11 crop was 11.5% relative to the previous campaign.***

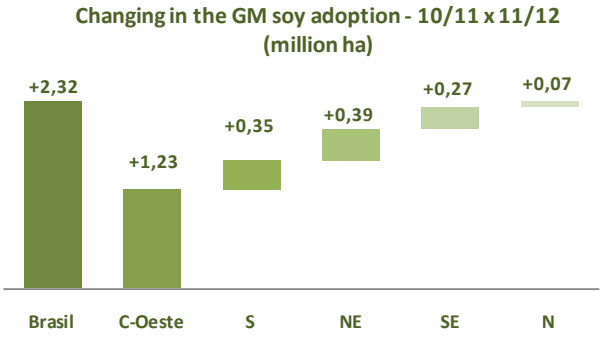
GM soybean plantings in Brazil - 2010/11 - 3rd survey

	Planted Area	Yield	Production	Adoption rate (as % of total area)				Planted area with biotech traits (,000 ha)			
	(,000 ha)	(kg/ha)	(,000 t)	IR	HT	IR/HT	Total	IR	HT	IR/HT	Total
NORTH	**637.8**	**2,985.0**	**1,904**	**0.0%**	**58.4%**	**0.0%**	**58.4%**	**0**	**372**	**0**	**372**
NOTHEAST	**1,920.0**	**3,140.0**	**6,029**	**0.0%**	**65.1%**	**0.0%**	**65.1%**	**0**	**1,251**	**0**	**1,251**
Maranhão	510.0	3,080.0	1,571	0.0%	60.7%	0.0%	60.7%	0	310	0	310
Piauí	360.0	3,050.0	1,098	0.0%	60.7%	0.0%	60.7%	0	219	0	219
Bahia	1,050.0	3,200.0	3,360	0.0%	68.8%	0.0%	68.8%	0	723	0	723
SOUTHEAST	**1,670.0**	**2,907.7**	**4,856**	**0.0%**	**67.9%**	**0.0%**	**67.9%**	**0**	**1,134**	**0**	**1,134**
Minas Gerais	1,050.0	2,930.0	3,077	0.0%	66.8%	0.0%	66.8%	0	701	0	701
São Paulo	620.0	2,870.0	1,779	0.0%	69.8%	0.0%	69.8%	0	433	0	433
SOUTH	**9,100.0**	**3,092.1**	**28,138**	**0.0%**	**87.9%**	**0.0%**	**87.9%**	**0**	**7,999**	**0**	**7,999**
Paraná	4,520.0	3,400.0	15,368	0.0%	75.9%	0.0%	75.9%	0	3,431	0	3,431
Santa Catarina	480.0	3,200.0	1,536	0.0%	99.2%	0.0%	99.2%	0	476	0	476
Rio Grande do Sul	4,100.0	2,740.0	11,234	0.0%	99.8%	0.0%	99.8%	0	4,093	0	4,093
CENTRAL-WEST	**10,817.0**	**3,138.2**	**33,946**	**0.0%**	**70.3%**	**0.0%**	**70.3%**	**0**	**7,608**	**0**	**7,608**
Mato Grosso	6,400.0	3,200.0	20,480	0.0%	66.8%	0.0%	66.8%	0	4,275	0	4,275
Mato Grosso do Sul	1,800.0	2,910.0	5,238	0.0%	74.9%	0.0%	74.9%	0	1,348	0	1,348
Goiás	2,560.0	3,140.0	8,038	0.0%	75.9%	0.0%	75.9%	0	1,943	0	1,943
Distrito Federal	57.0	3,320.0	189	0.0%	73.9%	0.0%	73.9%	0	42	0	42
N/NE	**2,557.8**	**3,101.4**	**7,933**	**0.0%**	**63.5%**	**0.0%**	**63.5%**	**0**	**1,623**	**0**	**1,623**
C-SUL	**21,587.0**	**3,100.9**	**66,940**	**0.0%**	**77.6%**	**0.0%**	**77.6%**	**0**	**16,741**	**0**	**16,741**
BRAZIL	**24,144.8**	**3,101.0**	**74,872**	**0.0%**	**76.1%**	**0.0%**	**76.1%**	**0**	**18,365**	**0**	**18,365**

Source: CÉLERES * Updated on: August, 3rd, 2011







2 COTTON

- ***In the wake of an exceptional year for cotton growing, we are projecting strong growth in the adoption of biotechnology by Brazilian cotton planters. In this first monitoring report, we are forecasting that 606,000 hectares (39%) of the 1.5 million hectares that are likely to be sown with cotton in the next agricultural year will be grown with transgenic varieties. This is considerable growth of 62.7% relative to the area sown to transgenic cotton in the previous year.***
- ***From the regional point of view, we are seeing the largest share of transgenic cotton in the Center-West, with 371,000 hectares, followed by the Northeast region, with 212,000 hectares, which is very much in line with the general distribution of cotton planting in Brazil.***

- ***As far as technology is concerned, there has been a rapid and expected growth in the adoption of herbicide-tolerance technology (HT), with isolated genes, and of varieties with combined genes (IR/HT) that are both insect-resistant and herbicide-tolerant.***
- ***Varieties with combined genes already represent 41.5% of the total area with biotechnology, followed by herbicide tolerance, with 36.7% total adoption and then insect resistance (IR), with 21.8%.***
- ***We believe that there is a clear growth trend in the preference of cotton planters for combined gene technologies, in detriment to simple gene technologies, which is what is happening in other cotton producing regions.***
- ***From the institutional point of view, over the last twelve months CTNBio has approved three new biotechnology events for cotton, raising the total to nine events approved, with two of them having insect resistance, four herbicide tolerance and three having combined genes. Technologies have currently been approved for three different holders of transgenic technology for cotton.***
- ***Growth in the adoption of biotechnology among cotton producers shows that the voids that existed between the supply of technologies and the real needs of cotton growers are beginning to be filled. The solution to this problem came from the progress made over the last few months in new approvals by CTNBio.***
- ***As it is still a long time before cotton for the 2011/12 harvest starts being planted and considering that this is a crop that is highly volatile in the market we may still see major changes, above all in the area that will be actually sown to the fiber. We just need to recall the 2010/11 crop, when the first planting estimates indicated an area of around 900,000 hectares and by the end of the harvest the planted area was in excess of 1.3 million hectares.***

GM cotton planting in Brazil - 2011/12 - 1st survey

	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**8.3**	**3,611.6**	**12**	**3.2%**	**12.9%**	**10.7%**	**26.8%**	**0**	**1**	**1**	**2**
Tocantins	8.3	1,361.3	12	3.2%	12.9%	10.7%	26.8%	0	1	1	2
NORTHEAST	**522.3**	**1,500.0**	**803**	**8.5%**	**14.2%**	**17.9%**	**40.6%**	**44**	**74**	**93**	**212**
Maranhão	20.0	1,490.2	29	7.7%	12.9%	17.9%	38.5%	2	3	4	8
Piauí	20.2	1,324.0	29	7.7%	12.9%	17.9%	38.5%	2	3	4	8
Bahia	470.0	1,556.0	742	8.6%	14.4%	17.9%	40.8%	40	67	84	192
SOUTHEAST	**60.0**	**1,426.6**	**87**	**8.6%**	**14.4%**	**10.7%**	**33.6%**	**5**	**9**	**6**	**20**
Minas Gerais	40.0	1,457.6	58	8.6%	14.4%	10.7%	33.6%	3	6	4	13
São Paulo	20.0	1,331.7	29	8.6%	14.4%	10.7%	33.6%	2	3	2	7
SOUTH	**1.3**	**789.5**	**1**	**8.0%**	**13.5%**	**4.7%**	**26.2%**	**0**	**0**	**0**	**0**
Paraná	1.3	789.5	1	8.0%	13.5%	4.7%	26.2%	0	0	0	0
C-WEST	**962.0**	**1,399.2**	**1,522**	**8.6%**	**14.4%**	**15.7%**	**38.6%**	**82**	**138**	**151**	**371**
Mato Grosso	780.0	1,371.9	1,231	8.6%	14.4%	15.7%	38.6%	67	112	122	301
Mato Grosso do Sul	70.0	1,463.4	110	8.6%	14.4%	15.7%	38.6%	6	10	11	27
Goiás	110.0	1,565.5	178	8.6%	14.4%	15.7%	38.6%	9	16	17	42
Distrito Federal	2.0	1,293.2	3	8.6%	14.4%	15.7%	38.6%	0	0	0	1
N/NE	**530.6**	**1,498.1**	**815**	**8.4%**	**14.2%**	**17.8%**	**40.4%**	**45**	**75**	**94**	**214**
C-SOUTH	**1,023.3**	**1,400.1**	**1,611**	**8.6%**	**14.4%**	**15.3%**	**38.3%**	**88**	**147**	**157**	**392**
BRAZIL	**1,553.9**	**1,434.3**	**2,426**	**8.5%**	**14.3%**	**16.2%**	**39.0%**	**132**	**222**	**251**	**606**

Source: CÉLERES® * Up dated: August 3rd, 2011

* Lint cotton production in thousand t IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene

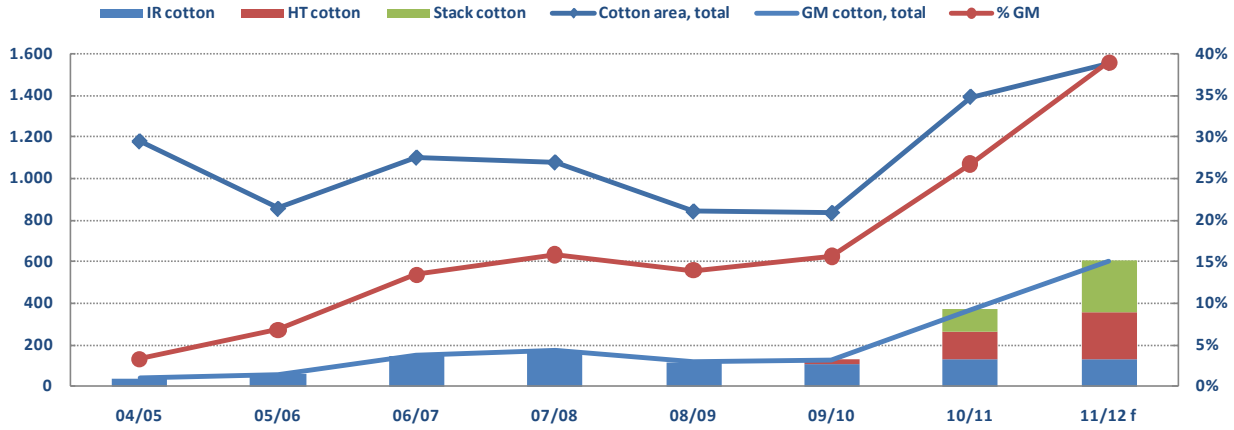
- ***With the adjustments made in the total area planted to cotton over the last twelve months, the adoption number of transgenic cotton for 2010/11 was also revised in our last monitoring report***
- ***Although the rate of adoption relative to the last monitoring report has remained practically constant, at 26.7% of the total area, the number of hectares sown with transgenic varieties grew by 14.5%, going from 325,200 hectares to 372,400 hectares in the third monitoring report of this agricultural campaign.***

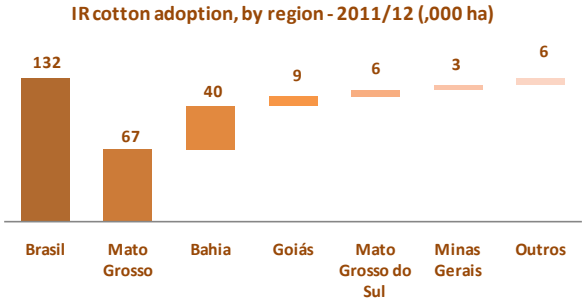
GM cotton planting in Brazil - 2010/11 - 3rd survey

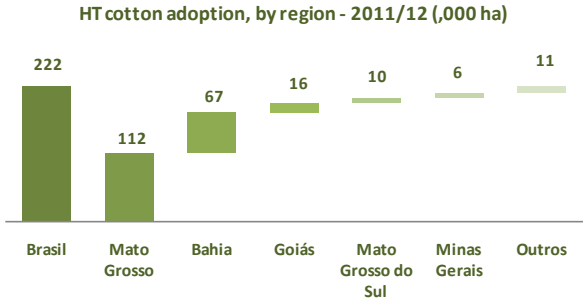
	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**5.5**	**3,538.8**	**8**	**3.3%**	**6.0%**	**2.2%**	**11.6%**	**0**	**0**	**0**	**1**
Tocantins	5.5	1,361.3	8	3.3%	6.0%	2.2%	11.6%	0	0	0	1
NORTHEAST	**451.9**	**1,500.0**	**686**	**12.1%**	**9.5%**	**7.2%**	**28.8%**	**55**	**43**	**32**	**130**
Maranhão	18.1	1,490.2	27	13.6%	8.0%	3.5%	28.1%	2	2	1	5
Piauí	16.8	1,324.0	24	8.5%	6.0%	2.7%	17.2%	1	1	0	3
Bahia	405.3	1,556.0	632	11.9%	9.8%	7.7%	29.5%	48	40	31	119
SOUTHEAST	**49.7**	**1,426.6**	**73**	**10.2%**	**8.9%**	**7.2%**	**26.3%**	**5**	**4**	**4**	**13**
Minas Gerais	31.6	1,457.6	46	10.2%	10.0%	9.8%	30.0%	3	3	3	9
São Paulo	18.1	1,331.7	28	10.2%	7.0%	2.8%	20.0%	2	1	1	4
SOUTH	**1.3**	**789.5**	**1**	**8.5%**	**8.2%**	**0.0%**	**16.7%**	**0**	**0**	**0**	**0**
Paraná	1.3	789.5	1	8.5%	8.2%	0.0%	16.7%	0	0	0	0
C-WEST	**883.9**	**1,399.2**	**1,309**	**8.0%**	**9.6%**	**8.3%**	**25.8%**	**70**	**85**	**73**	**228**
Mato Grosso	714.9	1,371.9	1,043	7.7%	9.1%	8.7%	25.4%	55	65	62	182
Mato Grosso do Sul	62.2	1,463.4	95	7.7%	9.5%	6.8%	24.0%	5	6	4	15
Goiás	104.8	1,565.5	167	10.2%	12.9%	6.8%	29.8%	11	13	7	31
Distrito Federal	2.0	1,293.2	3	8.8%	9.5%	0.0%	18.4%	0	0	0	0
N/NE	**457.4**	**1,498.1**	**694**	**12.0%**	**9.5%**	**7.1%**	**28.6%**	**55**	**43**	**33**	**131**
C-SOUTH	**934.9**	**1,400.1**	**1,383**	**8.1%**	**9.5%**	**8.2%**	**25.9%**	**75**	**89**	**77**	**242**
BRAZIL	**1,392.3**	**1,434.3**	**2,077**	**9.4%**	**9.5%**	**7.9%**	**26.7%**	**130**	**132**	**110**	**372**

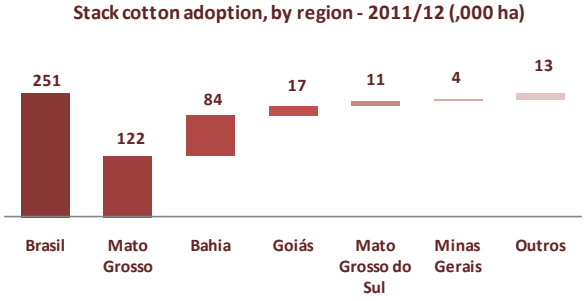
Source: CÉLERES® * Up dated: August 3rd, 2011

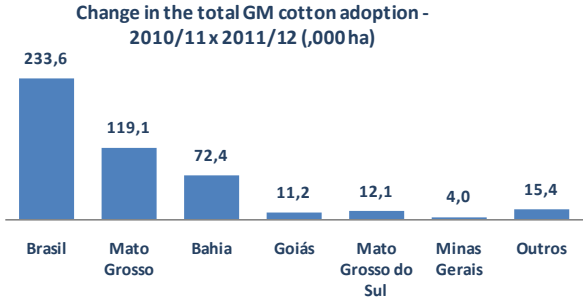
* Lint cotton production in thousand t IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene











3 CORN

- ***The major highlight in the adoption of agricultural biotechnology in Brazil is still corn. In the fourth year since commercial planting began, the barrier of 50% of the total area sown to summer corn has been broken. In this first monitoring report on the adoption of biotechnology in corn, we estimate that 4.5% million hectares will be cultivated with hybrid transgenic seed in the 2011/12 crop, which represents 54% of the total area to be sown with the cereal and growth of 32.3% compared with the previous crop.***
- ***It is important to point out that of the 8.3 million hectares that were estimated for total planting in 2011/12, a significant area will be sown with materials considered to be low tech, principally in the North and Northeast. So if we consider only the hectares sown with high tech materials the share of transgenic seed in the summer crop also exceeds the 70% level.***
- ***From the regional point of view, the biggest adoption of transgenic corn is taking place in the south of the country, with 1.8 million hectares, or 40.4% of the total being sown with transgenic materials, followed by the Southeast region, with 1.3 million hectares, or 28.2% of the total forecast for transgenic cultivation in the next summer crop.***
- ***In the technology analysis, hybrids with insect resistance (IR) are likely to represent 59.2% of the total area sown with transgenic materials, followed by combined gene (IR/HT) technologies, with 31.8% of the area sown with transgenic seed, and finally herbicide-tolerant (HT) materials, with 9.0% of the total area.***
- ***From the institutional point of view, the last twelve months have been extremely expressive, with CTNBio approving five new biotechnology events for corn.***
- ***With these approvals, the total number of events recorded for corn in Brazil has reached 16, of which ten are combined gene events (IR/HT), three events with insect resistance (IR) and three events with herbicide tolerance (HT), from five different holders of the technology. The increase in approvals of new technologies is making possible a scenario in which corn producers have more alternatives for agronomic management within the different production realities that exist in Brazil.***
- ***The rapid and expressive growth in the adoption of biotechnology for the production of corn in Brazil is an undoubted sign of the level of direct and indirect benefits that such technologies provide producers with, and means that in just a few years transgenic corn will become the technological standard among Brazilian producers, putting them on a practically equal footing with international competitors.***

Biotech corn plantings - summer crop - 2011/12 - 1st survey

	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**487.9**	**2,414.9**	**1,178**	**6.3%**	**1.4%**	**2.2%**	**9.9%**	**31**	**7**	**11**	**48**
Tocantins	70.0	3,232.8	226	33.5%	7.3%	11.0%	51.8%	23	5	8	36
NORTHEAST	**2,721.3**	**1,571.4**	**4,276**	**19.0%**	**2.7%**	**7.7%**	**29.5%**	**518**	**74**	**209**	**802**
Maranhão	385.0	1,710.3	658	42.0%	5.8%	17.4%	65.2%	162	22	67	251
Piauí	331.7	1,355.5	450	42.0%	5.8%	17.4%	65.2%	139	19	58	216
Bahia	415.0	3,644.0	1,512	42.0%	5.8%	17.4%	65.2%	174	24	72	271
SOUTHEAST	**1,750.0**	**5,860.3**	**10,256**	**47.5%**	**5.9%**	**18.6%**	**72.1%**	**832**	**104**	**326**	**1,262**
Minas Gerais	1,100.0	5,881.1	6,469	49.2%	5.8%	18.1%	73.2%	542	64	199	805
São Paulo	600.0	6,053.7	3,632	44.2%	5.8%	19.6%	69.6%	265	35	118	417
SOUTH	**2,700.0**	**6,039.2**	**16,306**	**36.0%**	**6.3%**	**24.7%**	**67.0%**	**972**	**171**	**667**	**1,810**
Paraná	950.0	7,984.1	7,585	36.0%	6.3%	27.9%	70.2%	342	60	265	667
Santa Catarina	600.0	6,034.6	3,621	36.0%	6.3%	24.0%	66.3%	216	38	144	398
Rio Grande do Sul	1,150.0	4,434.9	5,100	36.0%	6.3%	22.5%	64.8%	414	73	258	745
C-WEST	**634.2**	**6,810.6**	**4,320**	**47.1%**	**7.6%**	**33.5%**	**88.2%**	**299**	**48**	**213**	**559**
Mato Grosso	130.0	5,564.2	723	38.2%	7.2%	23.2%	68.6%	50	9	30	89
Mato Grosso do Sul	85.0	7,471.6	635	50.5%	7.2%	31.0%	88.6%	43	6	26	75
Goiás	400.0	6,978.4	2,791	49.2%	7.8%	37.2%	94.2%	197	31	149	377
Distrito Federal	19.2	8,824.4	170	47.2%	7.8%	38.0%	92.9%	9	2	7	18
N/NE	**3,209.2**	**1,699.6**	**5,454**	**17.1%**	**2.5%**	**6.9%**	**26.5%**	**549**	**81**	**220**	**850**
C-SOUTH	**5,084.2**	**6,073.9**	**30,881**	**41.4%**	**6.3%**	**23.7%**	**71.4%**	**2,102**	**323**	**1,206**	**3,631**
BRAZIL	**8,293.4**	**4,381.2**	**36,335**	**32.0%**	**4.9%**	**17.2%**	**54.0%**	**2,652**	**403**	**1,427**	**4,482**

Source: Céleres * Up dated: 3/agosto/2011

* IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene

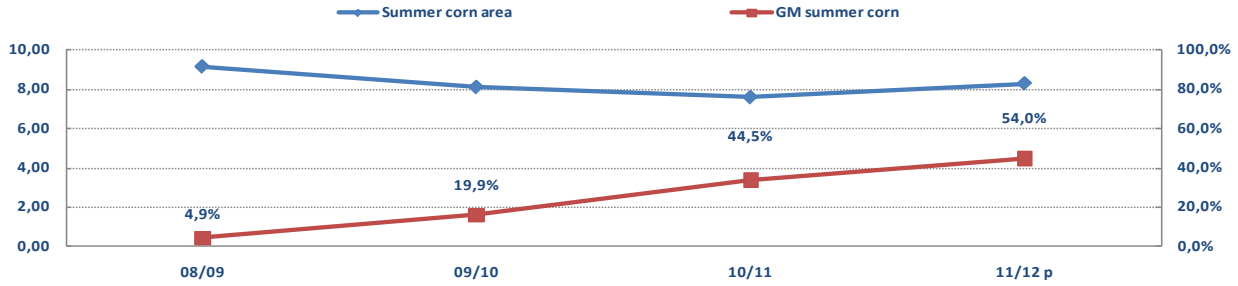
- ***For the 2010/11 summer crop, the numbers of this last monitoring report remain practically constant relative to the last report this year, with the area planted to transgenic materials remaining at 3.4 million hectares.***

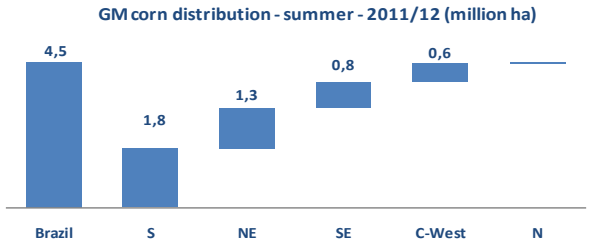
Biotech corn plantings - summer crop - 2010/11 - 3rd survey

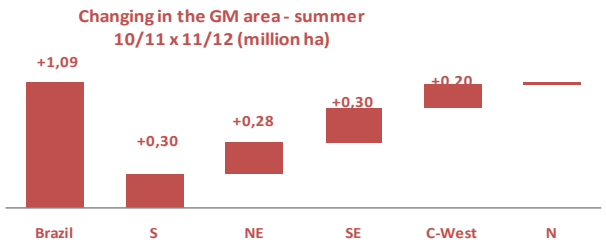
	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**475.6**	**2,435.3**	**1,158**	**4.8%**	**0.0%**	**0.1%**	**5.0%**	**23**	**0**	**1**	**24**
Tocantins	65.1	3,237.0	211	33.1%	0.0%	0.9%	34.0%	22	0	1	22
NORTHEAST	**2,668.6**	**1,736.8**	**4,635**	**18.5%**	**0.0%**	**0.4%**	**19.0%**	**495**	**0**	**12**	**507**
Maranhão	377.4	1,700.2	642	39.7%	0.0%	1.1%	40.8%	150	0	4	154
Piauí	328.4	2,090.7	687	38.4%	0.0%	1.1%	39.5%	126	0	4	130
Bahia	401.2	3,654.2	1,466	47.7%	0.0%	1.1%	48.8%	191	0	4	196
SOUTHEAST	**1,591.7**	**5,678.7**	**9,039**	**60.8%**	**0.0%**	**1.2%**	**62.0%**	**968**	**0**	**19**	**986**
Minas Gerais	995.0	5,671.3	5,643	60.9%	0.0%	1.2%	62.1%	606	0	12	618
São Paulo	556.9	5,896.1	3,283	60.9%	0.0%	1.2%	62.1%	339	0	6	346
SOUTH	**2,306.6**	**6,223.1**	**14,354**	**64.4%**	**0.0%**	**1.3%**	**65.6%**	**1,485**	**0**	**29**	**1,514**
Paraná	748.2	8,311.4	6,218	59.6%	0.0%	1.4%	61.0%	446	0	10	456
Santa Catarina	520.0	6,112.8	3,179	72.8%	0.0%	1.4%	74.2%	379	0	7	386
Rio Grande do Sul	1,038.5	4,773.9	4,957	63.6%	0.0%	1.1%	64.7%	660	0	11	672
C-WEST	**562.3**	**6,823.7**	**3,837**	**62.9%**	**0.0%**	**0.6%**	**63.5%**	**354**	**0**	**3**	**357**
Mato Grosso	105.8	6,179.0	654	59.6%	0.0%	0.5%	60.1%	63	0	1	64
Mato Grosso do Sul	64.0	7,266.7	465	66.2%	0.0%	0.5%	66.7%	42	0	0	43
Goiás	375.0	6,848.8	2,568	63.6%	0.0%	0.6%	64.2%	238	0	2	241
Distrito Federal	17.5	8,561.7	150	56.8%	0.0%	0.6%	57.5%	10	0	0	10
N/NE	**3,144.1**	**1,842.5**	**5,793**	**16.5%**	**0.0%**	**0.4%**	**16.9%**	**518**	**0**	**13**	**530**
C-SOUTH	**4,460.6**	**6,104.6**	**27,230**	**62.9%**	**0.0%**	**1.1%**	**64.1%**	**2,806**	**1**	**51**	**2,857**
BRAZIL	**7,604.8**	**4,342.4**	**33,023**	**43.7%**	**0.0%**	**0.8%**	**44.5%**	**3,323**	**1**	**63**	**3,388**

Source: Céleres * Up dated: 3/agosto/2011

* IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene







- ***Analysis of the adoption numbers for the 2011/12 winter crop indicate growth of 12.4% in the area sown with transgenic materials, going from 4.1 million to 4.6 million hectares. With such growth, 80.4% of the area to be sown in the 2011/12 winter crop will be sown with transgenic materials.***
- ***In the regional analysis, the Center-West region accounts for the biggest slice of transgenic winter plantings, with 56.9% of the area reserved for transgenic crops, followed by the South region, with 1.5 million hectares, or 32.4% of all transgenic plantings.***
- ***In the analysis by technologies, we are projecting that at the time the next winter crop is planted technologies with combined genes will occupy the main part of the transgenic area in 2011/12, with 50.5% of the total area, followed by insect resistance technology, with 35.6% of the total area. Finally, technologies with herbicide tolerance will occupy 14% of the total area planted to biotechnological crops in the next winter harvest.***

Biotech corn planting - winter crop - 2011/12 - 1st survey

	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**35.1**	**2,662.4**	**94**	**7.0%**	**1.7%**	**12.1%**	**20.8%**	**2**	**1**	**4**	**7**
NORTHEAST	**387.5**	**1,222.2**	**474**	**19.5%**	**4.7%**	**33.7%**	**57.9%**	**76**	**18**	**131**	**224**
Bahia	387.5	1,222.2	474	19.5%	4.7%	33.7%	57.9%	76	18	131	224
SOUTHEAST	**325.0**	**2,935.6**	**915**	**25.6%**	**15.2%**	**41.2%**	**82.0%**	**83**	**50**	**134**	**267**
Minas Gerais	30.0	5,392.7	151	25.6%	15.2%	41.2%	82.0%	8	5	12	25
São Paulo	295.0	2,693.5	764	25.6%	15.2%	41.2%	82.0%	75	45	122	242
SOUTH	**1,690.0**	**4,136.3**	**6,852**	**33.0%**	**11.7%**	**44.0%**	**88.7%**	**558**	**197**	**743**	**1,498**
Paraná	1,690.0	4,136.3	6,852	33.0%	11.7%	44.0%	88.7%	558	197	743	1,498
C-WEST	**3,316.5**	**4,358.4**	**13,724**	**27.9%**	**11.5%**	**39.9%**	**79.4%**	**927**	**382**	**1,324**	**2,632**
Mato Grosso	2,100.0	4,739.5	9,657	27.9%	11.5%	39.9%	79.4%	587	242	838	1,667
Mato Grosso do Sul	850.0	2,828.4	2,282	27.9%	11.5%	39.9%	79.4%	238	98	339	675
Goiás	360.0	5,139.6	1,748	27.9%	11.5%	39.9%	79.4%	101	41	144	286
Distrito Federal	6.5	5,744.9	37	27.9%	11.5%	39.9%	79.4%	2	1	3	5
N/NE	**422.6**	**1,341.9**	**567**	**18.5%**	**4.4%**	**31.9%**	**54.8%**	**78**	**19**	**135**	**232**
C-SOUTH	**5,331.5**	**4,199.9**	**21,490**	**29.4%**	**11.8%**	**41.3%**	**82.5%**	**1,568**	**628**	**2,201**	**4,397**
BRAZIL	**5,754.2**	**3,981.9**	**22,057**	**28.6%**	**11.2%**	**40.6%**	**80.4%**	**1,646**	**647**	**2,336**	**4,629**

Source: Céleres * Up dated: 3/agosto/2011

* IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene

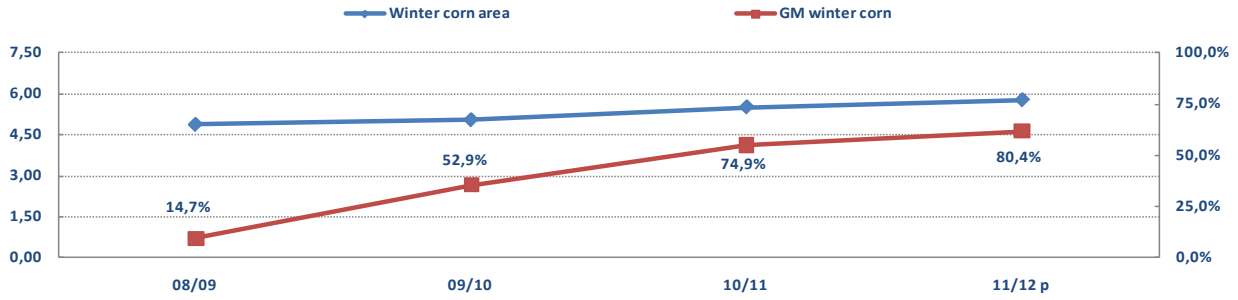
- ***A revision of the planting of transgenic corn in the 2010/11 winter crop now indicates a total area of 4.1 million hectares, growth of 2.9% compared with the last estimate from the beginning of this year.***

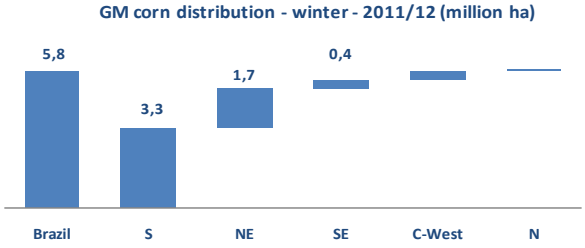
Biotech corn planting - winter crop - 2010/11 - 3rd survey

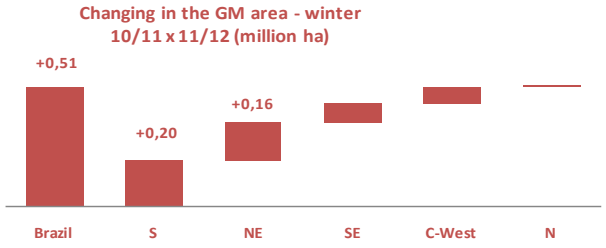
	Planted area (,000 ha)	Yield (Kg/ha)	Production (,000 t)	Adoption rate (% total area)				Biotech area (,000 ha)			
				IR	HT	STACK	Total	IR	HT	STACK	Total
NORTH	**32.0**	**2,703.0**	**86**	**10.6%**	**0.3%**	**1.2%**	**12.2%**	**3**	**0**	**0**	**4**
NORTHEAST	**379.9**	**1,046.3**	**397**	**33.6%**	**1.2%**	**3.6%**	**38.4%**	**128**	**5**	**14**	**146**
Bahia	379.9	1,046.3	397	33.6%	1.2%	3.6%	38.4%	128	5	14	146
SOUTHEAST	**309.0**	**2,977.6**	**920**	**60.4%**	**1.6%**	**1.8%**	**63.8%**	**187**	**5**	**6**	**197**
Minas Gerais	27.4	5,699.2	156	56.4%	1.6%	1.8%	59.8%	15	0	0	16
São Paulo	281.6	2,712.8	764	60.8%	1.6%	1.8%	64.2%	171	4	5	181
SOUTH	**1,658.1**	**4,332.4**	**7,184**	**74.4%**	**1.2%**	**5.0%**	**80.5%**	**1,233**	**19**	**83**	**1,335**
Paraná	1,658.1	4,332.4	7,184	74.4%	1.2%	5.0%	80.5%	1,233	19	83	1,335
C-WEST	**3,117.4**	**3,893.5**	**12,138**	**71.5%**	**1.2%**	**5.5%**	**78.2%**	**2,228**	**36**	**172**	**2,436**
Mato Grosso	1,946.0	4,017.7	7,818	71.5%	1.2%	5.5%	78.2%	1,391	23	107	1,521
Mato Grosso do Sul	830.0	3,141.5	2,607	71.5%	1.2%	5.5%	78.2%	593	10	46	649
Goiás	335.0	5,003.4	1,676	71.5%	1.2%	5.5%	78.2%	239	4	18	262
Distrito Federal	6.4	5,542.3	36	71.5%	1.2%	5.5%	78.2%	5	0	0	5
N/NE	**411.9**	**1,175.0**	**484**	**31.8%**	**1.2%**	**3.4%**	**36.4%**	**131**	**5**	**14**	**150**
C-SOUTH	**5,084.6**	**3,981.0**	**20,241**	**71.7%**	**1.2%**	**5.1%**	**78.1%**	**3,648**	**61**	**261**	**3,969**
BRAZIL	**5,496.5**	**3,770.7**	**20,725**	**68.7%**	**1.2%**	**5.0%**	**74.9%**	**3,779**	**65**	**275**	**4,119**

Source: Céleres * Up dated: 3/agosto/2011

* IR: Insect resistant; HT: Herbicide tolerant; RI/TH: stack gene







- ***So, at the time of the first monitoring report of the adoption of biotechnology for the 2011/12 crop, the current estimate indicates total plantings, between summer and winter corn, of 9.1 million hectares, of which 4.3 million hectares will be with materials with insect resistance, 3.8 million hectares with combined gene materials and 1.1 million hectares with herbicide-resistant materials.***
- ***This number represents 64.9% of the total area currently estimated for planting in the 2011/12 agricultural year, with growth of 21.4% relative to the total area sown with transgenic corn in 2010/11.***
- ***It is our understanding that a combination of favorable market conditions and greater investments in technology is putting corn on an equal competitive footing with soybeans and cotton, providing exceptional levels of economic return for farmers.***
- ***This, therefore, reinforces our understanding that the country is going through a silent technological revolution, which places Brazilian corn producers on a practically equal footing at the farm gates with their American and Argentinean competitors. This situation allows the country to have a level of safety with regard to domestic supply, in addition to creating exportable surpluses that can help regulate the domestic market.***
- ***The sector lacks, however, a solution to problems that lie beyond the farm gate, especially the still inefficient logistics that are excessively onerous for the country's corn production chain.***