

## **Domestic Fundamentals:**

#### Market Outlook:

The Rajkot mandi price for variety Shankar 6 stood Rs.42,650/per candy (75.54 cents/lbs). The advancement of monsoon has supported the growth of the cotton crop expecting higher crop against 2018-19 year, thus, pressure is built on cotton prices in the coming season.

*News: The domestic market currently has gained some support due to lower arrivals against the demand.* But the domestic market seems to show mixed trend in the coming days due to higher imports and increase in sowing progress with estimated higher crop production in 2019-20 season which is going to commence from the end of September. The trend in International market has fallen last week where the cotton futures is trading lower amid poor export sales report last week by USDA, higher world cotton estimated by USDA and increasing pressure between US and China.

As on 22<sup>nd</sup> Aug'19, the cotton area has been increased this year by 6.7 lakh ha and stood at 123.54 lakh ha till now higher than 116.84 lakh ha last year. The sowing is lagging behind only in Gujarat by 2.3% and stood at 26.28 lakh ha whereas all other states are now ahead compared to previous year. So far, the total area of cotton expanded this year by around 5.7%. The advancement in rainfall is favoring the cotton crop for a healthy growth all over India.

The pressure originating from higher domestic prices of cotton and weak export demand made India uncompetitive in the textile industry. As a result, the yarn exports of India declined and got weaker in the passage of time since June this year. India's cotton yarn export quantity declined by 33% in first quarter of FY20 (41% in May and June 2019) and stood at a seven-year low of 59 million kg in June 2019. As a result, multiple textile associations across the country have reported stock pile-ups and production cuts by spinning mills in recent months, eventually, lakhs of people have lost their jobs in the cotton textile industry.

**The rainfall in Gujarat might affect to the cotton crop** as on an average 5-10% loss in production in the cotton growing areas like Rajkot, Patan, Ahmedabad and in Saurashtra region might be reported. Although the loss in area is noticed in Gujarat in the current period (2019-20) and till now no loss is observed in Gujarat. As on 16<sup>th</sup> Aug'19, Total area sown was reported at 25.99 lakh ha less than 26.71 lakh ha in the corresponding period of previous season.

According to the Telangana government cotton sowing progress, as on 21<sup>st</sup> Aug'19, area remained 17.61 lakh ha which is 33,000 ha less than normal area and near around similar to previous year (17.65 lakh ha). Whereas, the area under cotton in AP stood at 5.45 lakh ha higher than 4.73 lakh ha in previous year and increased out of normal 5 lakh ha as on 21<sup>st</sup> Aug'19. No attack of pests is reported till now in AP while sucking pests are reported in one district of Telangana but below threshold level till now.

The data released by Ministry of Agriculture on 20th August, the 4th advance estimate shows that India is likely to produce 287.08 lakh bales, 12.4% less against last year production of 328.05 lakh bales (2017-18). The arrivals for this year is soon to be finished before the crop year ends in September due to the lower output. The crop for next year (2019-20) is expected to surge as the crop across India is healthier against 2018-19 as of now.

**Total MCX stock position as on 21<sup>st</sup> Aug'19, stood at 1,19,400 bales** with 62,400 bales in Gujarat, 40,000 bales in Maharashtra and 17,000 bales in Telangana with total utilized capacity of 1,24,900 bales.

The attack of pink bollworm has hit the surrounding regions of Yavatmal district in Akola, Nanded, few parts of Amaravati. It is noticed that early sown crop in these regions were more prone to the pink bollworm attack where 1-1.5 lakh ha of area was under the above category in the state. However, still the crop is in last stage of vegetative phase therefore less threat to the crop. Due to heavy rainfall and insect infestation may contribute 10-20% loss in production overall in the state as of now. As in few areas in Kolhapur and Sangli, the farmers are not able go on to the fields to find out the extent of the infestation of pest.

# **AGRIWATCH**

#### Cotton-Daily-Fundamental-Report 28<sup>th</sup> Aug, 2019

As per the WASDE report, India crop production is estimated at 29 million US bales (37.14 million bales) in 2019-20, around 9% above the 2018-19 crop. India's cotton mill use is expected to rise 2% (500,000 bales) in 2019-20 to 25.0 million bales, as cotton supplies are rising and value-added product exports remain important to India's foreign exchange. The USA's share in global ending stocks has risen followed by India as China's stocks have fallen and for 2019-20, India's cotton stocks are forecast at 10.3 million bales, or 12.5 percent of world stocks.

As on 16<sup>th</sup> Aug'19, the cotton area has been increased this year by 6.41 lakh ha and stood at 121.58 lakh ha till now higher than 115.17 lakh ha last year. The sowing is lagging behind only in Gujarat by 2.8% and stood at 25.99 lakh ha whereas all other states are now ahead compared to previous year. So far, the total area of cotton expanded this year by around 5.5%. The advancement in rainfall is favoring the cotton crop for a healthy growth all over India.

According to CAI, the Cotton stock held by mills in their godowns as on 31<sup>st</sup> July 2019 is estimated at 25.86 lakh bales. CCI, MNCs, Ginners and MCX are estimated to have stock of 19.94 lakh bales as on 31<sup>st</sup> July 2019 which is equal to about 21 lakh running bales. Thus, total stock held by spinning mills and stockists on 31<sup>st</sup> July 2019 is estimated at 45.80 lakh bales which is equal to about 49 lakh running bales.

#### Weather Forecast for tomorrow:

During the next 24 hours, light to moderate rains with few heavy spells are possible over Southeast Rajasthan and adjoining Gujarat region, parts of Andaman and Nicobar Islands. Scattered light to moderate rains with isolated heavy spells can be seen over Kutch, East Rajasthan, North and Northeast Madhya Pradesh, adjoining parts of south Uttar Pradesh, Konkan and Goa, Coastal Karnataka, Kerala, parts of Tamil Nadu, parts of Jammu and Kashmir, Himachal Pradesh and Uttarakhand along with parts of Assam and Meghalaya. Scattered light rains with one or two moderate spells are likely over rest parts of the country.

#### **International Fundamentals:**

**Cotton futures saw 38 to 56 point losses in most contracts on Monday**. The Cotlook A Index was higher 90 points on August 23 at 70.30 cents/lb. The weekly AWP is now 52.57 cents/lb, good through Thursday.

The US crop is improved slightly, NASS Crop Progress data showed 90% of the crop setting bolls (91% avg) against 90% in the same time last year, with 28% of the crop with bolls opening (19% avg) higher than 20% in the corresponding period last year. Around 33-44% crop is noticed to be in good to excellent condition in the current season increased from previous week. Although the crop received some relief from hot and dry conditions, but the largest portion of dryland acreage south of Lubbock continues to suffer as the crop needs rainfall for better growth at this stage of the crop. The US crop is likely to get smaller than the USDA's current 22.5M bale projection, but the US will still likely produce a significantly larger crop than it did in 2018.

*From May 5 to August 27, the cumulative turnover of reserve cotton was 749,700 tons, and the turnover rate was 84.95%.* On 27<sup>th</sup> Aug, 67.72% Of Total Put Auction at 8120.4929 tons for sales. Average Transaction price was 11,512 Yuan/ton (Down by 79 Yuan/ton from the previous day). The discounted 3128 price was 12,860 yuan/ton (Up by 17 yuan/ton from the previous day).

The international prices are backed by the announcement made by trump on late Friday, the US hit back by increasing the tariff on Chinese imports after China announced addition tariffs on several US agri goods in retaliation to the US tariff implementation on \$300 billion in Chinese goods in September and December. Of those cotton was included with 5% in tariffs added to US goods on 1<sup>st</sup> September. President trump imposed on the current 25% tariff on 300 billion USD of imports to be increased to 30%, and the 10% tariff on most remaining imports which will go in effect September 1<sup>st</sup> is increased to 15%. The cotton industry is going to get renewed buying interest from countries such as Iran, Vietnam and Bangladesh, though quantities are small.

AGRIWATCH

#### Cotton-Daily-Fundamental-Report 28<sup>th</sup> Aug, 2019

**The cotton is trending low, OCT'19 closed at 59.24, down 63 points** after the poor Export Sales report from USDA for the week ending 15th Aug'19, showed net upland sales of 2019-20, net sales of only 1,64,000RB were primarily for Vietnam (36,100 RB) followed by 24,000 RB and Turkey (10,900 RB) and reductions were from Hong kong (8,600 RB) and China (600 RB). For 2020-21, net sales of 500 RB were primarily for China (117,900 RB), Mexico (16,300 RB) and Vietnam (14,500 RB).

World cotton consumption in 2019-20 is projected at 123.1 million bales, compared with an estimated 120.6 million bales in 2018-19. Cotton mill use in China is projected at 40.0 million bales in 2019-20, up 1 percent (500,000 bales) from last season. Increased imports of raw cotton in recent years, along with domestic supplies from China's State Reserve, have helped sustain China's spinning industry during a period of stable production. Followed by India, Vietnam and Bangladesh also where 2% to 7% increase in mill consumption is estimated in 2019-20.

| MCX Cotton Futures*: (Prices in Rs/170 kgs)                                   |        |        |        |        |       |        |        |      |        |  |
|---|--------|--------|--------|--------|-------|--------|--------|------|--------|--|
| Contract  | +/-    | Open   | High   | Low    | Close | Volume | Change | OI   | Change |  |
| 19-Aug  | 70     | 21020  | 21200  | 20940  | 20950 | 543    | -584   | 5178 | -374   |  |
| 19-Oct  | 70     | 19720  | 19740  | 19610  | 19620 | 231    | -549   | 1761 | 37     |  |
| 19-Dec  | -60    | 19300  | 19300  | 19150  | 19210 | 20     | -43    | 693  | 4      |  |
|   |        |        |        |        |       |        |        |      |        |  |
| Spread  | 19-Jun | 19-Jul | 19-Aug | 19-Sep |       |        |        |      |        |  |
| Spot  |        |        |        |        |       |        |        |      |        |  |
| 19-Aug  |        | 1460   |        |        |       |        |        |      |        |  |
| 19-Oct  |        |        | 440    |        |       |        |        |      |        |  |
| (NB: Spread Basis = Spot- Near Month Future) As updated on 27th Aug @ 5.30 pm |        |        |        |        |       |        |        |      |        |  |
| * Updated at as on 27–Aug- 2019 @ 5:00 PM                                     |        |        |        |        |       |        |        |      |        |  |

## DOMESTIC PRICES AND ARRIVAL

#### **Cotton Prices at Key Spot Markets:**

| Commodity | Kapas     |             | Prices (Rs | s./Quintal) | Change |
|-----------|-----------|-------------|------------|-------------|--------|
| State     | Centre    | Variety     | 27-Aug-19  | 26-Aug-19   | Change |
|           | Ahmedabad | Shankar-6   | NA         | NA          | -      |
|           | Gondal    | Shankar-6   | Closed     | Closed      | -      |
|           | Rajkot    | B.T. Cotton | Closed     | Closed      | -      |
| Gujarat   | Patan     | B.T. Cotton | NA         | NA          | -      |
|           | Kadi      | B.T. Cotton | NA         | NA          | -      |
|           | Deesa     | B.T. Cotton | NA         | NA          | -      |
|           | Dhrol     | B.T. Cotton | NA         | NA          | -      |
|           | Bhiwani   | B.T. Cotton | NA         | NA          | -      |
| Harvana   | Bhiwani   | Desi        | NA         | NA          | -      |
| Haryana   | Adampur   | B.T. Cotton | 5800       | 5850        | -50    |
|           | Fatehabad | B.T. Cotton | NA         | NA          | -      |



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|                | Jind            | B.T. Cotton   | NA        | NA        | -      |
|----------------|-----------------|---------------|-----------|-----------|--------|
|                | Uchana          | B.T. Cotton   | NA        | NA        | -      |
|                | Dabwali         | B.T. Cotton   | NA        | NA        | -      |
| Paiasthan      | Hanumangarh     | B.T. Cotton   | NA        | NA        | -      |
| Rajasthan      | Rawatsar        | B.T. Cotton   | NA        | NA        | -      |
| Madhua Dradaah | Khandwa         | Mech-1        | NA        | NA        | -      |
| Madhya Pradesh | Khargaon        | Mech-1        | NA        | NA        | -      |
| Maharashtra    | Amravati        | Mech-1        | NA        | NA        | -      |
|                | Jamner          | Medium Staple | NA        | NA        | -      |
|                | Hathras         | B.T. Cotton   | 5500      | 5500      | Unch   |
| Uttar Pradesh  | Hathras         | Desi          | NA        | NA        | -      |
| Telangana      | Adilabad        | Un-Ginned     | NR        | NR        | -      |
|                | Bijapur         | Bunny         | 6379      | 6429      | -50    |
| Karnataka      | Hubli           | D.C.H.        | NA        | NA        | -      |
| Karnataka      | Hubli           | B.T. Cotton   | NA        | NA        | -      |
|                | Raichur         | H-44 Cotton   | NA        | NA        | -      |
| Commodity      | Lir             | nt            | Prices (R | s./Maund) | Change |
| State          | Centre          | Variety       | 27-Aug-19 | 26-Aug-19 | Change |
|                | Bhatinda        | J-34          | 4410      | 4430      | -20    |
| Punjab         |                 | J-34          | 4400      | 4430      | -30    |
| Fulljab        | Abohar          | J-34          | 1100      | 1100      | •••    |
| runjab         | Abohar<br>Mansa | J-34          | 4415      | 4480      | -65    |
| Haryana        |                 |               |           |           |        |
|                | Mansa           | J-34          | 4415      | 4480      | -65    |

## **Cotton Arrivals in Key Centers:**

| Commodity | Kapas     |             | Arrivals  | Change    |        |  |
|-----------|-----------|-------------|-----------|-----------|--------|--|
| State     | Centre    | Variety     | 27-Aug-19 | 26-Aug-19 | Change |  |
|           | Ahmedabad | Shankar-6   | NA        | NA        | -      |  |
|           | Gondal    | Shankar-6   | Closed    | Closed    | -      |  |
|           | Rajkot    | B.T. Cotton | Closed    | Closed    | -      |  |
| Gujarat   | Patan     | B.T. Cotton | NA        | NA        | -      |  |
|           | Kadi      | B.T. Cotton | NA        | NA        | -      |  |
|           | Deesa     | B.T. Cotton | NA        | NA        | -      |  |
|           | Dhrol     | B.T. Cotton | NA        | NA        | -      |  |
|           | Bhiwani   | B.T. Cotton | NA        | NA        | -      |  |
|           | Bhiwani   | Desi        | NA        | NA        | -      |  |
| Haryana   | Adampur   | B.T. Cotton | NA        | NA        | -      |  |
|           | Fatehabad | B.T. Cotton | NA        | NA        | -      |  |
|           | Jind      | B.T. Cotton | NA        | NA        | -      |  |



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|                | Uchana         | B.T. Cotton   | NA                 | NA        | -      |
|----------------|----------------|---------------|--------------------|-----------|--------|
|                | Dabwali        | B.T. Cotton   | NA                 | NA        | -      |
| Deizethen      | Hanumangarh    | B.T. Cotton   | NA                 | NA        | -      |
| Rajasthan      | Rawatsar       | B.T. Cotton   | NA                 | NA        | -      |
| Madhua Dradach | Khandwa        | Mech-1        | NA                 | NA        | -      |
| Madhya Pradesh | Khargaon       | Mech-1        | NA                 | NA        | -      |
| Maharashtra    | Amravati       | Mech-1        | NA                 | NA        | -      |
|                | Jamner         | Medium Staple | NA                 | NA        | -      |
| Uttar Pradesh  | Hathras        | B.T. Cotton   | 40                 | 30        | 10     |
| Uttar Pradesh  | Hathras        | Desi          | NA                 | NA        | -      |
| Telangana      | Adilabad       | Un-Ginned     | NR                 | NR        |        |
|                | Bijapur        | Bunny         | 90                 | 55        | 35     |
| Karnataka      | Hubli          | D.C.H.        | NA                 | NA        | -      |
| Kamataka       | Hubli          | B.T. Cotton   | NA                 | NA        | -      |
|                | Raichur        | H-44 Cotton   | NA                 | NA        | -      |
| Commodity      | Lin            | nt            | Arrivals (Quintal) |           | Change |
| State          | Centre         | Variety       | 27-Aug-19          | 26-Aug-19 | Change |
|                | Bhatinda       | J-34          | NA                 | NA        | -      |
| Punjab         | Abohar         | J-34          | NA                 | NA        | -      |
|                | Mansa          | J-34          | NA                 | NA        | -      |
| Haryana        | Sirsa          | J-34          | NA                 | NA        | -      |
| Rajasthan      | Sri-Ganganagar | J-34          | NA                 | NA        | -      |

## **Cotton Seed Oil Prices:**

| Commodity   | Cotton Seed Oil |             | Pri       | Change    |        |
|-------------|-----------------|-------------|-----------|-----------|--------|
| State       | Centre          | Unit        | 27-Aug-19 | 26-Aug-19 | Change |
| Gujarat     | Rajkot          | Rs. /10 Kg. | 785       | 790       | -5     |
| Delhi       | New Delhi       | Rs. /10 Kg. | 762       | 761       | 1      |
| Telangana   | Hyderabad       | Rs. /10 Kg. | Unq       | Unq       | -      |
| Maharashtra | Mumbai          | Rs. /10 Kg. | 810       | 802       | 8      |

#### **Cotton Seed Oil Seed Cake Prices:**

| Commodity   | Cotton Seed Oil Seed Cake |         | Pri       | Change    |        |
|-------------|---------------------------|---------|-----------|-----------|--------|
| State       | Centre                    | Unit    | 27-Aug-19 | 26-Aug-19 | Change |
| Gujarat     | Mahesana (Kadi)           | Rs./Qtl | 3200      | 3200      | Unch   |
| Maharashtra | Akola                     | Rs./Qtl | 3158      | 3138      | 20     |



## Cotton Association of India Spot Rates:

| Staple        | Micronaire  | Strength/  | Rs. Per<br>Candy   | Rs. Per<br>Candy  | Change  |  |  |  |  |
|---------------|---|--|--|---|---|--|--|--|--|
|               |   | GFT  | 26-Aug-19  | 23-Aug-19   | _   |  |  |  |  |
| Below<br>22mm | 5.0 - 7.0   | 15   | 40800  | 40800   | Unch  |  |  |  |  |
| Below<br>22mm | 5.0 - 7.0   | 15   | 41300  | 41300   | Unch  |  |  |  |  |
| 26mm          | 3.5 - 4.9   | 23   | 42600  | 43000   | -400  |  |  |  |  |
| 28mm          | 3.5 – 4.9   | 27   | 42000  | 41800   | 200   |  |  |  |  |
| 29mm          | 3.5 – 4.9   | 28   | 42900  | 42700   | 200   |  |  |  |  |
| 31mm          | 3.5 - 4.9   | 30   | 44900  | 44900   | Unch  |  |  |  |  |
| 32mm          | 3.3 - 4.9   | 31   | 46000  | 46000   | Unch  |  |  |  |  |
| 34mm          | 3.0 - 3.8   | 33   | 53900  | 53900   | Unch  |  |  |  |  |
|               | Below<br>22mm<br>22mm<br>22mm<br>26mm<br>28mm<br>29mm<br>31mm<br>32mm | Below<br>22mm 5.0 - 7.0   Below<br>22mm 5.0 - 7.0   26mm 3.5 - 4.9   28mm 3.5 - 4.9   29mm 3.5 - 4.9   31mm 3.5 - 4.9   32mm 3.3 - 4.9 | StapleMicronaireGPTBelow<br>22mm5.0 - 7.015Below<br>22mm5.0 - 7.01526mm3.5 - 4.92328mm3.5 - 4.92729mm3.5 - 4.92831mm3.5 - 4.93032mm3.3 - 4.931 | Staple Micronaire Strength/<br>GPT Candy   Below 5.0 - 7.0 15 40800   Below 5.0 - 7.0 15 40800   Below 5.0 - 7.0 15 41300   26mm 3.5 - 4.9 23 42600   28mm 3.5 - 4.9 27 42000   29mm 3.5 - 4.9 28 42900   31mm 3.5 - 4.9 30 44900   32mm 3.3 - 4.9 31 46000 | Staple<br>Below<br>22mmMicronaireStrength/<br>GPTCandyCandyBelow<br>22mm $5.0 - 7.0$ 15 $40800$ $40800$ Below<br>22mm $5.0 - 7.0$ 15 $41300$ $41300$ Below<br>22mm $5.0 - 7.0$ 15 $41300$ $41300$ 26mm $3.5 - 4.9$ 23 $42600$ $43000$ 28mm $3.5 - 4.9$ 27 $42000$ $41800$ 29mm $3.5 - 4.9$ 28 $42900$ $42700$ 31mm $3.5 - 4.9$ 30 $44900$ $44900$ |  |  |  |  |

## **INTERNATIONAL PRICES AND INDICES**

| China Cotton Index:              |         |           |           |        |
|----------------------------------|---------|-----------|-----------|--------|
| Index                            | Unit    | 27-Aug-19 | 26-Aug-19 | Change |
| CCIndex(328)                     | RMB/Ton | 13079     | 13422     | -343   |
| CCIndex(527)                     | RMB/Ton | 12082     | 12431     | -349   |
| CCIndex(229)                     | RMB/Ton | 13397     | 13682     | -285   |
| RMB -Renminbi, 1RMB =0.16 \$U.S. |         |           |           |        |

| China Foreign Cotton (FCE) Index : |          |           |           |        |
|------------------------------------|----------|-----------|-----------|--------|
| Index                              | Unit     | 27-Aug-19 | 26-Aug-19 | Change |
| FC Index (S)                       | Cents/lb | 74.58     | 74.92     | -0.34  |
| FC Index (M)                       | Cents/lb | 70.54     | 71.24     | -0.70  |
| FC Index (L)                       | Cents/lb | 66.7      | 67.09     | -0.39  |

| Cotlook Index:  |             |           |           |        |
|-----------------|-------------|-----------|-----------|--------|
| Cotlook Indices | Unit        | 26-Aug-19 | 23-Aug-19 | Change |
| A-Index         | Cents/Pound | 70.3      | 70.3      | Unch   |

| USDA Cotton Spot Rates: |           |                        |                        |          |  |  |  |
|-------------------------|-----------|------------------------|------------------------|----------|--|--|--|
| Growth Area Unit        |           | Leaf 4 to<br>Staple 34 | Leaf 3 to<br>Staple 35 | Arrivals |  |  |  |
|                         |           | 24-Aug-19              | 24-Aug-19              | Bales    |  |  |  |
| Southeast               | cents/lb. | 56.16                  | 58.41                  | 0        |  |  |  |
| North Delta             | cents/lb. | 55.16                  | 57.41                  | 102      |  |  |  |
| South Delta             | cents/lb. | 55.16                  | 57.41                  | 0        |  |  |  |
|                         |           | * · · · · ·            |                        |          |  |  |  |

## **AGRIWATCH**

## Cotton-Daily-Fundamental-Report 28<sup>th</sup> Aug, 2019

| East TX-OK   | cents/lb. | 52.16 | 54.41 | 600 |  |  |  |
|--|-----------|-------|-------|-----|--|--|--|
| West Texas   | cents/lb. | 52.16 | 54.91 | 185 |  |  |  |
| Desert SW  | cents/lb. | 50.41 | 54.41 | 0   |  |  |  |
| SJ Valley  | cents/lb. | 50.91 | 59.81 | 0   |  |  |  |
| Spot quotations are for cotton equal to the official standards, net weight, in mixed lots. Upland quotations are FOB car/truck, which includes compression and any brokerage charges. The upland base quality is color 41, leaf grade 4, staple 34 (1.05 to 1.07), mike 3.5, 3.6 and 4.3 to 4.9, strength 26.5 to 28.4 grams per Tex and uniformity 80.5 to 81.4 |           |       |       |     |  |  |  |

| Pakistan Cotton Spot rates: As on 26-Aug-2019 |           |              |                  | (in Pakistan Rupees) |  |  |
|---|-----------|--------------|------------------|----------------------|--|--|
| Product                                       | Rate for  | Ex-Gin Price | Up Country Sales | Spot Rate Karachi    |  |  |
| Cotton  | 37.32 Kgs | 8000         | 160              | 8160                 |  |  |
| Equivalent                                    | 40 Kgs    | 8574         | 171              | 8745                 |  |  |

| Daily Futures Price Listing Mon August 26, 2019 |        |       |       |       |       |        |              |             |        |
|---|--------|-------|-------|-------|-------|--------|--------------|-------------|--------|
| Most Recent Information                         |        |       |       |       |       |        | Previous Day |             |        |
| Mth   | Date   | Open  | High  | Low   | Close | Change | Volume       | Open<br>Int | Change |
| Cotton(ICE)                                     |        |       |       |       |       |        |              |             |        |
| <u>19-Oct</u>                                   | 190826 | 57.58 | 57.66 | 56.19 | 57.66 | -0.31  | 8            | 272         | -2     |
| <u>19-Dec</u>                                   | 190826 | 57.97 | 57.97 | 56.59 | 57.82 | -0.39  | 11,735       | 136,701     | -187   |
| <u>20-Mar</u>                                   | 190826 | 59    | 59    | 57.65 | 58.74 | -0.41  | 4,155        | 46,987      | 476    |
| <u>20-May</u>                                   | 190826 | 60.1  | 60.1  | 58.84 | 59.65 | -0.56  | 581          | 8,655       | 96     |
| <u>20-Jul</u>                                   | 190826 | 61.17 | 61.17 | 60.11 | 60.74 | -0.65  | 212          | 7,596       | 69     |
| <u>20-Oct</u>                                   | 190826 | 61.43 | 61.43 | 61.43 | 61.43 | -0.66  |              |             |        |
| Total Volume and Open Interest                  |        |       |       |       |       | 16,928 | 216,481      | 528         |        |

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