

Doubling the Cotton Farmers' Income: Economic Perspective

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implementation and monitoring of frontline extension programmes and water management economics.

Doubling the farmers' income by 2022-23 is the goal set by the Government of India to promote farmers' welfare, reduce agararian distress and parity in the incomes. The Ministry of Agriculture and

Farmers Welfare in its recent report on Doubling Farmers' Income (DFI) clarified that the income to be doubled is real income (which was adjusted for

inflation) rather than nominal income (http://agricoop.gov.in/sites/default/files/DFI%20 Volume%202.pdf). At the national level, this average income is targeted to be doubled by 2022-23. The aggregate all-India average income of an agricultural household during the base year's (2015-16) is estimated to be Rs 96,703 per year at current prices. The doubling would imply that the average farm household income would go up

to Rs 1,93,406 measured at 2015-16 prices. The report also advised to raise the ratio of farm to non-farm income to 60:40 from the existing 70:30. If we take the existing ratio into consideration the income from farming should be about Rs. 135000 per ha per year. If we consider the projected ratio (60:40) it will be about Rs. 116000 / year. The average size of land holding of Indian farmer

is 1.15 ha (as per 2010-11 census). That means a farmer should earn about Rs. 100000 / ha by 2022 from farming at the projected ratio of 60:40. This is true about cotton also.

In line with the national goal, if the income of the cotton farmers is to be doubled, the income from cotton cultivation also needs to

be doubled. In 70-80% of cotton area, cotton is cultivated as a single crop. In this context the income and expenditure in cotton cultivation is analyzed to find out

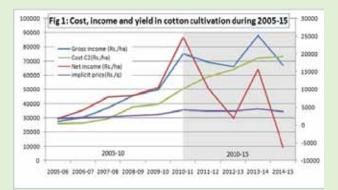
where we stands now and what needs to be done to double the income from cotton cultivation.



Current level of income:

Average gross income from cotton cultivation was Rs. 73200 / ha during 2010-15 while net income was Rs. 9259 / ha. Net income showed a negative trend during 2010-15 (fig 1) while the gross income remained stagnant. Net income

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decreased from Rs. 24682 / ha during 2010-11 to Rs. 15604 / ha during 2013-14 and it was negative (Rs. 6318 / ha) during 2014-15. Under this situation can we achieve the target of achieving an income of Rs. 100000 / ha from cotton cultivation in the stipulated period? Indeed it is a herculean task. If we have to achieve the target what should be done?

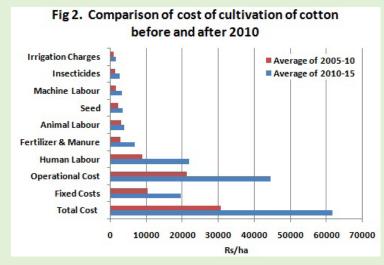
Genesis of the current situation

Fall of the income in cotton cultivation during 2010-15 was due to stagnation in yield and prices as well as constant escalation in cost of cultivation. If we examine the costs and returns over the last decade (2005-06 to 2014-15), it is clear that the cost of cultivation of cotton escalated at a rate of about 12.8% per annum during 2005-10 as well as during 2010-15 (table 1). But during 2005-10, the positive growth in productivity and out-put price countered this increase in total cost. During 2005-10, the productivity registered a positive growth of 5.22% and the output price increased at the rate of 12.47% per annum. This made the gross and net income to increase at the rate of 17.32% and 53.54% respectively. But the situation reversed after 2010-11. Cost of cultivation continued to increase at the same rate where as productivity of cotton as well as output price remained almost stagnant. So the profit of the cotton farmers decreased and the farmers even incurred losses during 2014-15. Reversing the trend and achieving the target of doubling income made a multi pronged approach as given below.

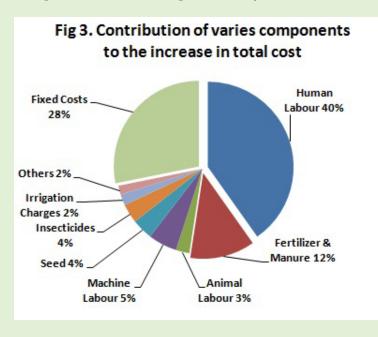
Table 1. Annual compound growth rates of cost, income and yield in cotton cultivation											
Particular	2005-10	2010-15									
Gross income	17.32	0.06									
Net income	53.53	-26.33									
Cost of production	12.81	12.86									
Output price	12.47	-0.76									
Yield	5.22	0.57									

Curtail the costs

If we compare average cost of cultivation during 2010-15 (second period) with that of 2005-10 (first period), the cost of cultivation recorded 100% increase ie., it increased from Rs. 31817 / ha to Rs. 63941 / ha (Fig 2) . Seventy two percent of this increase was contributed by operational costs and the remaining 28 % was contributed by Fixed Costs. Major contributor among the operational cost was the cost of human labour,



which increased from Rs. 8964 during 2005-10 to Rs. 21916 / ha during 2010-15 ie., 144% increase. This component alone contributed to 40 % of increase in total cost (Fig 3). But the actual quantity of of human labour employed increased by 27 % only from 88 mandays /ha during 2005-10 to 112 mandays /ha during 2010-15. The major increase was due to the increase in wage rate which was about 140%. During the first period it was Rs. 88 per man day (8 hours)



which increased to Rs. 200 per man day during the second period. There may be many reasons for wage escalations. As farmers have no control on wage rates they have to curtail the quantity of human labour requirement. In cotton production picking of cotton and weeding/inter culture are the major activities which consume about 60-65% of human labour. Hence cotton picking should be mechanized to reduce the human labour consumption. For this much research efforts need to be made to devise machines suitable to Indian conditions. Cultivation of early maturing determinate type varieties where picking is early and will be over in 1-2 rounds will reduce the human labour requirement. Similarly all options for weed control, including chemical, mechanical, cultivation of cover crops, mulching should be integrated to reduce human labour consumption.

Another component among the Operational Costs which contributed to this hike is the cost of fertilizers and manures. The cost of fertilizers and manures increased from Rs. 2778 during first period to Rs. 6722 / ha during second period. This contributed 12% to increase in total cost. Nutrient consumption increased from 13kg/ ha to 23 kg/ha. Similarly the consumption of manures increased from 46q/ha to 91q/ha. This coupled with the increase in prices, increased the cost of fertilizers and manures to Rs. 2778 to Rs. 6722 per ha. This needs to be reduced through cost effective technologies. Nutrient requirement should be partially met through recycling of farm waste and growing green manure / mulch crops / legume based inter crops where ever possible. Growing of early maturing, compact types would also reduce the nutrient requirement.

The other components which contributed to increase in cost of cultivation include Machine Labour, seed cost, Insecticides and Irrigation Charges. Machine Labour contributed 5% to increase in cost while cost of seed and Insecticides contributed 4% each. Irrigation Charges contributed 2% to increase in cost. All these costs needs to be reduced by adopting proper management procedures.

Increase productivity

If we examine the productivity during 2010-15, it is almost stagnant averaging around 17 q/ha. If the cost of cultivation increases at the current rate it will become about 130000 / ha after 5years. To cover this expenditure at current level of output price of Rs. 4000/ q farmer needs to produce at

least 33 q / ha. It is almost double when compared with current level of productivity. Is it possible to double the productivity within 5 years without doubling the inputs? If we want to double the productivity what should be done. The following strategies have been suggested by the ICAR-CICR, in the project document of TMC MM II submitted to the Min. Of Textiles, Govt of India.

- IPM/IRM based Pest management with a special emphasis on pink boll worm and whitefly.
- New short duration varieties and hybrids (Bt. variety, ELS cotton, Desi variety and Bt. hybrid).
- Weed management: Pre-emergence Pendimethalin and Turga Super.
- Row direction: North-South directional planting.
- High density planting (HDPS).
- Moisture conservation: Broad bed and furrow / Ridge and furrow system, Cover crop and mulching.
- Soil test based Nutrient Management (right rate, right time, right method and right type).
- Canopy management with tested chemicals (Ethrel and mepiquat) coupled with manual methods of clipping wherever possible.
- Drip irrigation wherever possible with polymulch.
- Mulching plastic or biological and cover crops.

Further Indian cotton needs to be made competitive in the international markets so that the increased output may be siphoned out through exports to avoid negative impact on the domestic prices.

Price support

Output price is very important aspect which has direct impact on the income of the farmers. The growth of the cotton prices did not match with the growth of production costs during 2010-15. Rather they were stagnant during this period. The minimum support prices fixed by the government were low and in most of the years they were lower than the cost of production.

Price should be at such a level where a farmer who is producing at national average

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productivity level should get the average targeted income of Rs. 100000 / ha. As the average cotton productivity is about 17 q / ha, if the farmer has to get Rs. 100000 income the price should be about Rs. 6000 / q of seed cotton. But at current level it is about Rs. 4000 / quintal. MSP fixed by the government during 20017-18 is also in the range of Rs. 4220 - 4320 / q for varies qualities and grades. The announcement of the fixing of MSP at 1.5 times of the cost of production by the Govt. of India is a welcome move in this direction. Cost of production varies widely from state to state and situation to situation. There is a difference of about Rs.2000 per q between highest and lowest cost of production. In these situations whether single MSP to all states is relevant or not is debatable. Implementing this with the existing limited procurement facilities is a big task before the government. Further cost escalation in the value chain needs to be considered while implementing this policy.

Value addition to the Cotton Stalks

In India, around 30 million tonnes of cotton stalks are produced annually, and less than 10 % of the stalks are put to commercial use. The briquettes and pellets made from the cotton stalks can be used as boiler fuels in many industries, brick kilns, and gasification. The stalks used in

briquetting and pelleting would fetch about Rs 2000/tonne of stalk. About 2.5 tonnes of stalk is produced in one ha of cotton field which will give about Rs. 5000 additional income if this is utilized for briquettes and pellets making. Cotton stalks can be utilized for bio-enriched compost preparation and oyster mushroom cultivation. The burden of collection and logistics of cotton stalks from the field limits its uses in Industrial application. These can be taken as an entrepreneurial activity by the farmers to fetch additional income from cotton cultivation.

Conclusions

It is clear from the above analysis that the current level of income from cotton cultivation is very low and showing negative trend. The main factors behind this are increasing cost of cultivation coupled with stagnant productivity and output price levels. To achieve the targeted income by the year 2022, it is necessary to limit the growth in production costs as well as increase the productivity by utilizing all possible means. It is also very important to keep the prices at a level where farmers will get profits.

(The views expressed in this column are of the author and not that of Cotton Association of India)

Cotton Yarn Production

(In Mn. kg)

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18 (P)
April	273.77	268.06	268.20	316.61	328.68	349.38	333.84	339.75
May	283.69	255.56	286.19	314.97	332.92	348.14	360.30	344.97
June	284.79	248.29	288.40	317.69	330.69	346.72	351.53	337.96
July	302.16	256.73	301.34	332.12	340.00	356.36	342.87	341.83
August	300.34	262.74	302.85	336.30	338.09	354.67	333.93	330.68
September	297.68	258.97	296.74	326.09	334.03	338.53	326.09	326.03
October	301.55	241.83	302.65	328.79	323.53	342.12	310.24	326.14
November	283.52	243.85	282.88	312.13	335.66	320.06	326.15	350.79
December	308.78	269.82	314.21	341.67	353.96	353.31	341.86	355.33
January	296.87	279.19	315.07	340.38	349.82	343.98	345.24	349.78
February	272.99	269.01	302.59	321.31	330.35	336.55	330.01	
March	283.63	272.29	321.57	340.20	356.78	347.84	352.79	
TOTAL	3489.78	3126.34	3582.68	3928.27	4054.51	4137.64	4054.85	3403.26

P - Provisional

(Source: Office of the Textile Commissioner)

Glimpses of Ram Navami Celebrations held at the Shree Ram Temple, Cotton Green, on March 25, 2018







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FCOUNT M		A P	Fine Fine	1 6	97 97	25 26 10348 11417																														ac s a c c c c c c c c c c c c c c c c c
o e		M/M/A ICS-105	Fine	3.0-3.4 25		8686	8686	8686	9898	9898 9898 9617 9617	9898 9817 9617 9617	9898 9817 9617 9476 9476	9898 9817 9617 9476 9476	9898 9817 9617 9476 9476 9476	9898 9817 9617 9476 9476 9476 9476	9898 9817 9617 9476 9476 9476 9420	9898 9617 9617 9476 9476 9476 9420 9280	9898 9617 9617 9476 9476 9476 9420 9280	9898 9898 9617 9476 9476 9476 9476 9420 9280 9280	9898 9817 9617 9476 9476 9476 9420 9280 9280 9308	9898 9817 9617 9476 9476 9476 9420 9280 9280 9280 9308	9898 9617 9617 9476 9476 9476 9420 9280 9280 9280 9308	9898 9617 9617 9476 9476 9476 9420 9280 9280 9280 9280 9280	9898 9617 9617 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280	9898 9617 9617 9617 9476 9476 9420 9280 9280 9280 9280 9280 9280 8886 8886 8886	9898 9617 9617 9476 9476 9476 9420 9280 9280 9280 9280 9308 8281 8886 8886 8889	9898 9617 9617 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280 8886 8886 8886 8886 8886	9898 9617 9617 9416 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280 8251 8689 8689 8689	9898 9617 9617 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9308 873 8689 8689 8633 8520	9898 9617 9617 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280 9308 8308 8520 8520 8520	9898 9617 9617 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9308 8689 8689 8689 8689 8633 8520 8520 8520	9898 9617 9617 9476 9476 9476 9476 9476 9476 9476 947	9898 1 9817 1 9617 1 9617 1 9617 1 9476 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 8280 8886 8886 8886 8873 8886 8873 88520 8520 8520 8520 8520 8520 8520 852	9898 1 9617 1 9617 1 9617 1 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280 9280 8886 8886 8886 8886 8886 8886 8820 8520 8520 8520 8520 8520 8520 8520	9898 1 9817 1 9617 1 9617 1 9617 1 9476 9476 9476 9476 9476 9476 9476 9476	9898 9617 9617 9617 9476 9476 9476 9476 9476 9476 9420 9280 9280 9280 9280 9280 9280 8280 8886 8886 8873 8886 8823 8823 8323 8323 8323
		M/M P/H/R ICS-104 ICS-202				()																														
		KAR ICS-103	Fine	4.0-5.5	17	9420	9420	9420	9420 9420	9420 9420 9420 9561	9420 9420 9420 9561	9420 9420 9420 9561 9561	9420 9420 9561 9561 9561 9561	9420 9420 .9420 9561 9561 9561 9561	9420 9420 9420 9561 9561 9561	9420 9420 9420 9561 9561 9561 9561 9505	9420 9420 9420 9561 9561 9561 9561 948	9420 9420 9420 9561 9561 9561 9561 9420	9420 9420 9420 9561 9561 9561 9561 9562 9420 9420	9420 9420 9420 9561 9561 9561 9561 9561 9562 9420 9420	9420 9420 9420 9561 9561 9561 9561 9420 9420 9420	9420 9420 9420 9561 9561 9561 9565 9420 9420 9420	9420 9420 9420 9561 9561 9561 9565 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9561 9420 9420 9420 9420 9420 9336	9420 9420 9420 9561 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9562 9420 9420 9420 9420 9420 9420 9420 942	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 923 923	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 923 923 923 9223	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 923 923 923 923	9420 9420 9420 9561 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9561 9561 9561 9420 9420 9420 9420 9420 9420 9420 9420	9420 9420 9420 9420 9561 9561 9561 9562 9420 920 920 920 920 920 920 920 9	9420 9420 9420 9420 9561 9561 9561 9420
				5.0-7.0 4.0-6.0 15 20		11979 8239																														
				5.0-7.0 15		11838 11	•		•	·	·	•	·	•	·	•	·	·	•	·	· ·	·	·	·	·	· ·	·	·	·	·	·	·	·			·
		Growth G. Standard	Grade	Surpre Micronaire Strength/GPT		1	1 2	3 2 1	2 3 5 1	6 5 3 2 1	7 2 3 3 2 7	8 7 6 5 3 2 1	0 8 4 9 01 33 15 17	10 8 8 7 9 2 1 10	110 88 87 110 110 110 110 110 110 110 110 110 11	11 10 13 13	1	1	1 5 5 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	11	1	1	1 2 8 8 9 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8	1	1	1	1	1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	H 3 3 6 3 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	11	11	11



The Cotton Association of India (CAI) is respected as the chief trade body in the hierarchy of the Indian cotton economy. Since its origin in 1921, CAI's contribution has been unparalleled in the development of cotton across India.

The CAI is setting benchmarks across a wide spectrum of services targeting the entire cotton value chain. These range from research and development at the grass root level to education, providing an arbitration mechanism, maintaining Indian cotton grade standards, issuing Certificates of Origin to collecting and disseminating statistics and information. Moreover, CAI is an autonomous organization portraying professionalism and reliability in cotton testing.

The CAI's network of independent cotton testing & research laboratories are strategically spread across major cotton centres in India and are equipped with:

- State-of-the-art technology & world-class Premier and MAG cotton testing machines
- # HVI test mode with trash% tested gravimetrically

LABORATORY LOCATIONS

Current locations : • Maharashtra : Mumbai; Akola; Aurangabad • Gujarat : Rajkot; Mundra; Ahmedabad • Andhra Pradesh : Guntur, Warangal
• Madhya Pradesh : Indore • Karnataka : Hubli • Punjab : Bathinda

Upcoming locations : • Telangana: Adilabad



COTTON ASSOCIATION OF INDIA

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				UPC	OUNTRY	SPOT R	RATES				(R	s./Qtl)		
		Descriptio etres based [By lav		Spot Rate (Upcountry) 2017-18 Crop MARCH 2018										
Sr. No.	Growth	Grade Standard	Grade	Staple	Micronaire	Strength /GPT	26th	27th	28th	29th	30th	31st		
1	P/H/R	ICS-101	Fine	Below 22mm	5.0-7.0	15	11923 (42400)	11923 (42400)	11923 (42400)	11923 (42400)	11867 (42200)	11867 (42200)		
2	P/H/R	ICS-201	Fine	Below 22mm	5.0-7.0	15	12063 (42900)	12063 (42900)	12063 (42900)	12063 (42900)	12007 (42700)	12007 (42700)		
3	GUJ	ICS-102	Fine	22mm	4.0-6.0	20	7311 (26000)	7311 (26000)	7311 (26000)	7311 (26000)	7311 (26000)	7311 (26000)		
4	KAR	ICS-103	Fine	23mm	4.0-5.5	21	9223 (32800)	9223 (32800)	9223 (32800)	9083 (32300)	9083 (32300)	9083 (32300)		
5	M/M	ICS-104	Fine	24mm	4.0-5.0	23	10067 (35800)	10067 (35800)	10067 (35800)	10011 (35600)	10011 (35600)	10011 (35600)		
6	P/H/R	ICS-202	Fine	26mm	3.5-4.9	26	11192 (39800)	11192 (39800)	11220 (39900)	11220 (39900)	11164 (39700)	11164 (39700)		
7	M/M/A	ICS-105	Fine	26mm	3.0-3.4	25	8520 (30300)	8520 (30300)	8520 (30300)	8323 (29600)	8323 (29600)	8323 (29600)		
8	M/M/A	ICS-105	Fine	26mm	3.5-4.9	25	9336 (33200)	9336 (33200)	9336 (33200)	9336 (33200)	9195 (32700)	9195 (32700)		
9	P/H/R	ICS-105	Fine	27mm	3.5.4.9	26	11332 (40300)	11332 (40300)	11360 (40400)	11360 (40400)	11304 (40200)	11304 (40200)		
10	M/M/A	ICS-105	Fine	27mm	3.0-3.4	26	8998 (32000)	8998 (32000)	8998 (32000)	8802 (31300)	8802 (31300)	8802 (31300)		
11	M/M/A	ICS-105	Fine	27mm	3.5-4.9	26	9701 (34500)	9701 (34500)	9701 (34500)	9701 (34500)	9561 (34000)	9561 (34000)		
12	P/H/R	ICS-105	Fine	28mm	3.5-4.9	27	11529 (41000)	11529 (41000)	11557 (41100)	11473 (40800)	11417 (40600)	11389 (40500)		
13	M/M/A	ICS-105	Fine	28mm	3.5-4.9	27	10236 (36400)	10236 (36400)	10264 (36500)	10404 (37000)	10432 (37100)	10432 (37100)		
14	GUJ	ICS-105	Fine	28mm	3.5-4.9	27	11164 (39700)	11164 (39700)	11192 (39800)	11164 (39700)	11192 (39800)	11164 (39700)		
15	M/M/A/K	ICS-105	Fine	29mm	3.5-4.9	28	10967 (39000)	10967 (39000)	10995 (39100)	10967 (39000)	10995 (39100)	10995 (39100)		
16	GUJ	ICS-105	Fine	29mm	3.5-4.9	28	11417 (40600)	11417 (40600)	11445 (40700)	11417 (40600)	11445 (40700)	11417 (40600)		
17	M/M/A/K	ICS-105	Fine	30mm	3.5-4.9	29	11248 (40000)	11248 (40000)	11276 (40100)	11248 (40000)	11276 (40100)	11389 (40500)		
18	M/M/A/K/T/O	ICS-105	Fine	31mm	3.5-4.9	30	11642 (41400)	11642 (41400)	11670 (41500)	11642 (41400)	11670 (41500)	11670 (41500)		
19	A/K/T/O	ICS-106	Fine	32mm	3.5-4.9	31	12092 (43000)	12092 (43000)	12120 (43100)	12092 (43000)	12120 (43100)	12120 (43100)		
20	M(P)/K/T	ICS-107	Fine	34mm	3.0-3.8	33	15072 (53600)	15072 (53600)	15072 (53600)	15072 (53600)	15072 (53600)	15072 (53600)		

(Note: Figures in bracket indicate prices in Rs./Candy)