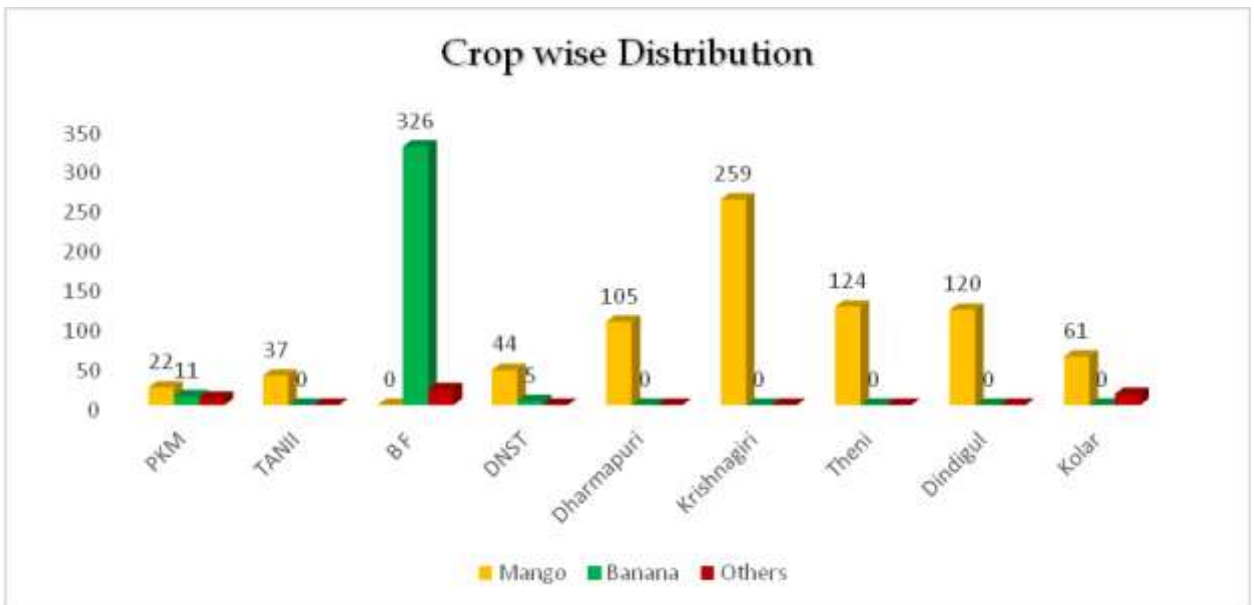
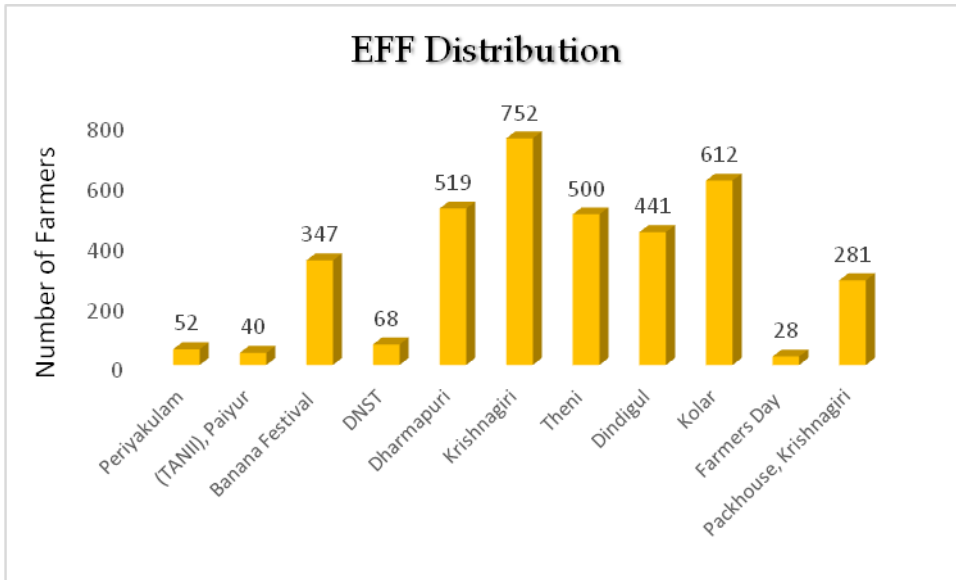


EFF Technology Delivery at the Farm Gate

Our survey suggested that the post-harvest losses of mango in Tamil Nadu is 35.3% from the point of production till it reaches the consumer. The losses were attributed to the improper harvesting, handling, grading, transportation, whole sale and retailing outlets besides lack of cold storage. In order to reduce post-production losses, the TNAU and University of Guelph, Canada, has jointly developed a technology "Enhanced Freshness Formulation (EFF)" which is known to reduce post-harvest losses when the EFF is applied as a pre-harvest spray or post-harvest dip. The present study was conducted in four major mango producing domains of Tamil Nadu viz., Krishnagiri, Dharmapuri, Theni, Dindigul districts of Tamil Nadu and Kolar district of Karnataka where EFF technology was practiced by large number of farmers and acceptance behavior of EFF technology was assessed based on the feedback from the farmers who had adopted the technology. The EFF was distributed at free of cost to get the feedback of the technology from the users. About 3640 mango farmers had undertaken the EFF trial during the Phase II (Dec. 2014 - March 2018) of the project. The sensitization and eventual distribution of EFF took place in various locations and the number of farmers expressing interest are provided in parenthesis as follows: Periyakulam Mango Workshop (52), Tamil Nadu Innovative Initiative (TANII) meet at RRS, Paiyur (40), Banana Festival (347), Department of Nano Science and Technology, TNAU (68), Krishnagiri (752), Dharmapuri (519), Theni (500), Dindigul (441), Kolar (300), Farmers Day in TNAU (28) and Krishnagiri Packhouse Meet (281). After the season, feedback from the users were collected by personal interview. Collected data were classified and analyzed. The findings of the study revealed that post-harvest losses had been reduced by 10-12% in the EFF sprayed fields in comparison to control. Farmers got additional 24% income/acre directly due to increased retention (10%) and two weeks delay in harvest (14%). Our feedback survey suggested that 55% of the respondents got the premium price after EFF spray, 31% expressed that the ripening of mango fruits was delayed, and 6% indicated that there was no difference between treated and control. The data clearly suggests that more than 80% of the fruit growers benefitted from the EFF technology.

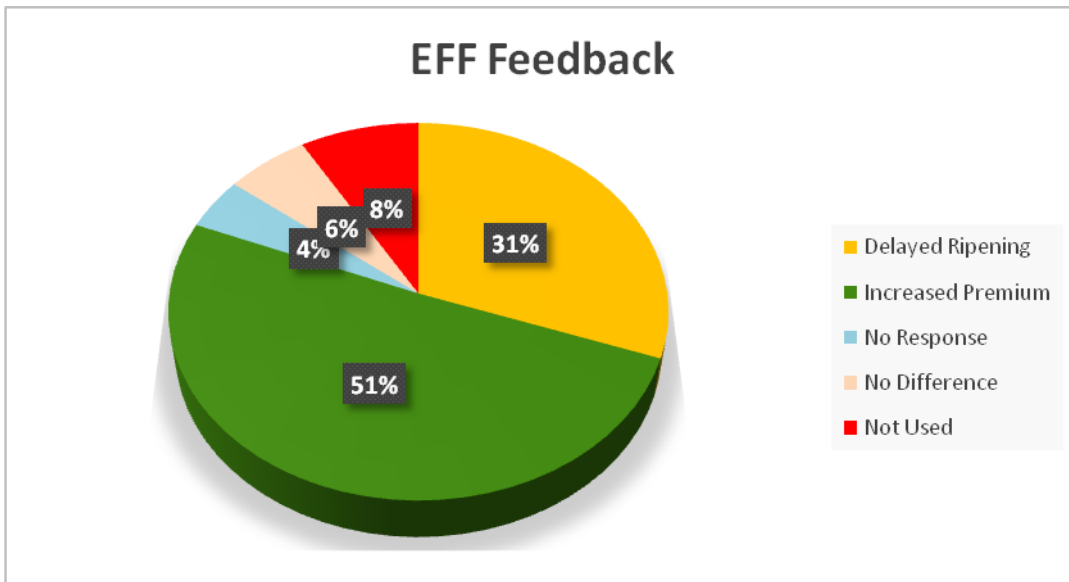
EFF Distribution List – IDRC Phase II

No	Date	Events	Beneficiaries
1	24.09.2016	Mango workshop at HC&RI, Periyakulam	52
2	28.03.2017	Tamil Nadu Innovative Initiative (TANII) meet at RRS, Paiyur	40
3	21 st to 23 rd July, 2017	National Banana Festival at AC&RI, Madurai	347
4	2015 – 2018	Department of Nano Science and Technology, TNAU, Coimbatore	68
5	May, 2017	MYRADA distribution in Dharmapuri	519
6	May – June, 2017	MYRADA distribution in Krishnagiri	752
7	July – August, 2017	MYRADA distribution in Theni	500
8	July, 2017	MYRADA distribution in Dindigul	441
9	May – June, 2017	MYRADA distribution in Kolar	612
10	9&10, Feb- 2018	Farmers Day at TNAU	28
11	12 th March-2018	Packhouse meet at Krishnagiri	281
		Total	3640



Farmers' remarks on using EFF

Impact of EFF	# Farmers
Delayed Ripening	350
Increased Premium	583
No Response	51
No Difference	68
Not Used	97



Progress in the use of EFF among Fruit Growers in TamilNadu, India as a result of IDRC-CIFSRF project on Enhanced Preservation of Fruits Using Nanotechnology between 2013-2018 (March)

