

MEADOW ORCHARD - A CASH FLOW

BAIF - RRIDMA is executing a developmental programme since year 2013 in Rampura Agucha, district Bhilwara where Meadow Orchard of Guava on 0.25 Ha area per Orchard was installed, two such kind of trials has been done. 560 Guava plants were planted between 2x2m distance within plant to plant. Pruning is done three times in year.



**Table 1 - Normal plantation & Meadow orchard
ESTIMATED EXPENDITURE**

Particulars	Normal plantation (6m*6m) 80 plants in 0.20 ha (Guava plants)						Dence plantation/Meadow orchard (2m*2m) 560 plants in 0.20 ha (Guava plants)					
	Year						Year					
	1st	2nd	3rd	4th	5th	Total	1st	2nd	3rd	4th	5th	Total
Layout	400	0	0	0	0	400	0	0	0	0	0	0
Pit digging	2400	0	0	0	0	2400	16800	0	0	0	0	16800
Pit filling material including labor	2500	0	0	0	0	2500	17500	0	0	0	0	17500
Plants & labour	3000	300	0	0	0	3300	20000	1200	0	0	0	21200
Fencing	7000	1200	0	0	0	8200	49000	8400	0	0	0	57400
Aftercare	2400	3000	4500	4500	4500	18900	16800	20000	22000	25000	25000	108800
Pruning	200	200	200	100	100	800	0	0	2000	2000	2000	6000
Equipments	3250	0	0	0	0	3250	3250	0	0	0	0	3250
Total Expenses	21150	4700	4700	4600	4600	39750	123350	29600	24000	27000	27000	230950

ESTIMATED INCOME

Production /plants	0	0	80	100	150	330	0	20	25	32	40	117
Total Production in kg.	0	0	6400	8000	12000	26400	0	11200	14000	17920	22400	65520
Rate /kg	0	0	12	12	12	36	0	12	12	12	12	12
Total income in Rs.	0	0	76800	96000	144000	316800	0	134400	168000	215040	268800	786240

Table 1 shows actual expenditure and Income in year first and second and tentative expenditure and income in forthcoming three years.

Analysis of table 1 is as follows:

- (1) The meadow orchard is developed by the plantation of 560 plants at the distance of 2x2m between two plants at 0.25 ha where intercropping is not possible, whereas

the regular orchard has 6x6m distance between two plants at 0.25 ha with 80 plants only.

(2) Cost of plantation per plant in meadow orchard comes to Rs. 220.26/- whereas regular orchard plantation cost is Rs. 264.37/- per plant.

(3) Regular Orchard yields 80 kg per plant fruits in year IIIrd whereas plant in meadow orchard yields 20kg per plant in year second. Therefore Meadow orchard total yield is 11200 kg whereas regular orchard yield is 6400kg only.

(4) During the fifth year, it is expected that the production in meadow orchard will enhance to 2.5 times of current year.

(5) In regular orchard, Rs. 39,750/- will be the total expenditure and Rs. 2,77,050/- will be the net income (i.e. Rs. 3463.15/- per plant) whereas in meadow orchard the total expenditure during 5 years will be Rs. 2,30,950/- and the net income will be Rs. 5,55,290/- (i.e. Rs. 991.58/- per plant).



FIELD EXPERIENCES IN REAL-

(1) Meadow orchard demands more care and management therefore, active farmer may only establish it.

(2) Pruning is the major activity needed in success of meadow orchard where training is the essential component at every stage.

(3) Drip irrigation is far better than flood/other irrigation sources in meadow orchard.

(4) As meadow orchard doesn't allow intercropping, therefore, it is essential that timely weeding & hoeing must be done and nutrients should be topped up timely.



Although, the results so far today shows that Meadow Orchard is more economically viable in comparison to regular orchard, but it is also certain that forthcoming results will prove it authentically.