

Department of Agriculture, Bombay

BULLETIN No. 153 of 1928

ECONOMIC VALUE OF FRUIT FARMING
IN WESTERN INDIA

BY

DR. G. S. CHEEMA, D.Sc.

Horticulturist to the Government of Bombay, Poona

AND

P. G. DANI, B.AG., B.Sc.

Superintendent, Modibug, Poona



FIRST EDITION

[Price—Annas 6 or 8d.]

BOMBAY
PRINTED AT THE GOVERNMENT CENTRAL PRESS
1928

Obtainable from the Superintendent of Government Printing and Stationery, Bombay; from the High Commissioner for India, 42 Grosvenor Gardens, S.W.1, London; or through any recognized Bookseller

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ECONOMIC VALUE OF FRUIT FARMING IN WESTERN INDIA

The advent of canals for irrigation inspired the cultivators of the Presidency with strong hopes of raising really paying crops. Some of these hopes have failed to materialise during recent years. For example, the most promising crop of sugarcane has already proved a disappointment though some crops are still paying well. But it seems that the cultivators are on the lookout for some others that might pay them more than what they are making at present.

We take this opportunity to suggest fruit farming. It might answer their present requirements. The Horticulturist to Government has been busy in investigating the economic value of fruit cultivation in Western India for the last five years. The main efforts were directed to calculate the normal cost of cultivation and the resultant income derived from different fruit crops. Reliable records that were used as the bases of the cost of cultivation and the subsequent yield of specified plots, in the Modibag, Agricultural College, Poona, were kept from the very outset. These suggestions will prove of special value to the cultivators as great care has been taken in calculating the figures and in choosing a great variety of crops. The plots chosen were small. But the crops selected include all kinds of paying fruits that can be grown in the Presidency. Hence even the holder of a very small area can derive full benefit from it.

In this article we propose to give facts and figures concerning figs, bananas, pomegranates and papayas. An appendix for each of these crops is added at the end. Even a casual survey of it can give a detailed idea of the quantity of labour required for each operation with its respective cost incurred during the last five years. There are also figures of yield and value. There is also table to show the annual dividend on the capital invested.

The following table will illustrate clearly how the figures are accompanied by a set of conditions under which those fruit crops have been successfully grown. It includes the nature of the soil and its depth, spacing, irrigation, marketing and the rate at which fruits were sold :—

No.	Crop	Nature of soil	Depth of soil	Spacing of plants	Irrigation	Market where fruits were sold	Rate at which fruits were sold
1	Fig	Light	9"	15'	Canal and well.	Poona	From 4 to annas per lb.
2	Pomegranate	Do.	9"	15'	Do.	Do.	From 1 to 2 annas per fruit.
3	Papaya	Medium black.	1½	8"	Canal	Do.	Two annas per fruit.
4	Banana	Do.	2	10	Do.	Do.	Three annas per dozen.

Obviously the general conditions under which these plantations have been raised are in no way extraordinary. In fact, every care has been taken to grow them under as normal conditions as an average fruit grower actually does. Any special treatment would only add to the figures of cost and thus reduce the ultimate net income.

Cost of cultivation.—To arrive at the total cost of cultivation daily labour sheets are taken as the bases for calculation. The total amount of labour and the material spent on a particular crop in a year are classified according to the kind of operation done, and the value is calculated at the following rates prevalent :—

Cost of labour.—Man charged at 10 annas per day. ✓

Woman charged at 5 annas per day. ✓

Bullock charged at 10 annas per day. ✓

Cost of material.—Farm yard manure at Rs. 2 per cart-load. ✓

Bonemeal at Rs. 85 per ton. ✓

Two cart-loads are equal to one ton (2,240 lbs.)

One iron basket of manure ordinarily weighs 20 lbs. ✓

In the case of bananas for instance, the figures from the second year onwards recur with negligible differences and the same operations have to be repeated annually. Under such circumstances, the figures for the second year are taken for the successive years.

Figures of return.—Individual tree performance records were maintained for each orchard and the total yield was taken from these records.

A word or two of explanation are quite essential here regarding the disposal of the produce. A great quantity of it was used for experimental, laboratory, teaching and exhibition purposes. The rest was always preferably disposed of at our own stalls. Sometimes if there was a surplus it was sent to the market and was sold at a wholesale price. Our retail prices are much below the average market rate and are always fixed. Disregarding the high retail rate of the market that prevails over a large part of the year, and sometimes the low prices, we have taken care to calculate the value of the produce at the mean average rate. We can therefore safely assert that there would not be much difference whether it was sold at retail price or at the wholesale price in the market. Care has been taken not to include unmarketable stuff in the total yield.

It may further be stated that an attempt has been made to include (1) supervision charges, (2) marketing charges, (3) assessment of land separately, and 9 per cent. interest has been charged on the total amount, including the cost of cultivation. To interest our readers, an annual dividend is shown on the initial capital, taking the value of the land at Rs. 1,800 per acre round about Poona.

These items (including the value of the land) vary from place to place and from year to year. For instance, marketing or carrying the produce to the market in the neighbourhood of Poona is easy and

costs less than carrying the same from Diva and Saswad where there are no railway facilities. Besides, there is likelihood of at least some produce being spoiled in transit. An instance of the variable value of the land may be cited. Round about Poona the value of the land is Rs. 1,800 per acre while at Saswad it is much lower. Figures for such items can be adjusted according to the local conditions and facilities.

The figures of cost of cultivation and income per acre in the neighbourhood of Poona are as follows :—

Years	Fig.		Pomegranate	
	Cost	Income	Cost	Income
1st year	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
...	262 5 4	345 14 5	231 8 0	Nil
2nd year	197 6 4	410 12 0	221 0 8	52 18 0
3rd year	279 11 8	508 4 0	163 10 5	72 5 0
4th year	297 2 0	452 15 0	248 12 5	327 9 7
5th year	295 12 4	530 2 8	321 8 5	780 13 0

Years	Papaya		Banana	
	Cost	Income	Cost	Income
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1st year	272 11 9	512 11 0	488 2 0	Nil
2nd year	387 10 6	729 11 0	342 8 0	1,422 10 0
3rd year	326 15 10	1,913 2 0	341 4 0	953 6 0
4th year	....	....	341 4 0	965 4 0
5th year	....	....	341 4 0	1,253 0 0

Out of these, bananas and papayas seem to be more profitable while figs and pomegranates come second.

The difficulty in the extension of these crops lies in the fact that their initial expenditure is heavy. But this can be overcome by the judicious management through intercropping till the fruit crops come to normal bearing. These crops being perennial, their recurring expenses fall year by year and the income rises gradually. In conclusion, it may be confidently claimed that in the canal tract or wherever water is available the foregoing crops can be grown by cultivators with a good profit according to soil conditions.

The following data are used in the appended statements for each crop :—

1. *Cost of labour.*—Man charged at 10 annas per day, woman charged at 5 annas per day, boy charged at 5 annas per day, bullock charged at 10 annas per day.

2. *Cost of material.*—Farm yard manure at Rs. 2 per cart-load, ash at Rs. 2-8 per cart-load, bonemeal at Rs. 85 per cart-load.

Two cart-loads are equal to one ton (2,240 lbs.).

One iron basket of manure weighs 20 lbs.

3. *Supervision charges.*—Calculated at $1\frac{1}{2}$ annas per rupee of the cost of cultivation.

4. *Marketing charges.*—Charged at one anna per 100 lbs. or 100 in number of the total yield.

5. *Assessment of the land.*—Average figure of Rs. 3-11-3 per acre calculated from the assessment figures of the surrounding survey numbers.

6. *Value of the land.*—The land is valued at Rs. 1,800 per acre round about Poona. (Figures were got from the land acquisition file of the Principal, College of Agriculture, Poona.)

7. *Interest.*—Interest is charged at .9 per cent. on the sum invested.

APPENDIX No. 1 (*a*)

APPENDIX

*Statement showing figures of cultivation for
Area—30 gunthas.*

No.	Operations, etc.	1921-22			1922-23		
		Labour		Cost	Labour		Cost
		Men	wo. bull.	Rs. a. p.	Men	wo. bull.	Rs. a. p.
1	Ploughing with C. T.	7	0	14	13	2 0	2 $\frac{1}{2}$ 0 6 $\frac{1}{2}$
2	Harrowing and discing	6 $\frac{1}{2}$	0	12	11	11 6	5 $\frac{1}{2}$ 0 11
3	Digging pits 3' x 3' x 3'	56 $\frac{1}{2}$	0	0	35	5 0	.....
4	Cost of plants 12 $\frac{1}{2}$	.....	.....	15 0 0	.....	.....	.....
5	Planting	20 $\frac{1}{2}$	0	0	12	13 0	.....
6	Manure (5 lb. bone + 60 FY.M.)	.....	.....	37 6 6	.....	.....	18 0 0
7	Manuring	5 $\frac{1}{2}$	2	6	7	13 0	8 4 $\frac{1}{2}$ 0
8	Watering charges	17 $\frac{1}{2}$	0	0	11	1 6	24 $\frac{1}{2}$ 0 0
9	Preparation of beds	13 $\frac{1}{2}$	0	3	10	5 0	18 $\frac{1}{2}$ 3 $\frac{1}{2}$ 1
10	Interculture	10 $\frac{1}{2}$	7 $\frac{1}{2}$	0	8	12 0	16 45 0
11	Irrigation charges (canal)	.....	.....	15 12 0	.....	.....	15 12 0
12	Inter crop, Tomato planting	3 $\frac{1}{2}$	2	0	2	13 0	7 $\frac{1}{2}$ 3 0
13	Main and sub-crop harvesting	15 $\frac{1}{2}$	12 $\frac{1}{2}$	0	13	9 6	8 $\frac{1}{2}$ 9 $\frac{1}{2}$ 0
14	Watching of figs	0	4	0	1	4 0	0 28 0
15	San green manuring	.....	.....	.....	8 $\frac{1}{2}$	16 10	16 9 0
16	Uprooting tomato plants	.....	.....	.....	0	1 $\frac{1}{2}$ 0	0 8 9
17	Miscellaneous	.....	.....	.....	.....	.....	.....
		Total	156 $\frac{1}{2}$	28 35	196 12 0	99 $\frac{1}{2}$ 111 $\frac{1}{2}$ 27 $\frac{1}{2}$	148 0 9

Year	Total cost for the plot	Cost calculated per acre	
		Rs. a. p.	Rs. a. p.
1921-22	196 12 0	262	5 4
1922-23	148 0 9	197	6 4
1923-24	209 12 9	279	11 8
1924-25	222 13 6	297	2 0
1925-26	221 13 3	295	12 4

No. 1 (a)

fig crop, for five years from 1921 to 1926

Spacing—15' either way

1923-24			1924-25			1925-26		
Labour	Cost		Labour	Cost		Labour	Cost	
Men wo. bull.	Rs. a. p.		Men wo. bull.	Rs. a. p.		Men wo. bull.	Rs. a. p.	
5 0 9	8 13 0		2 0 4	3 12 0		2½ 0 5	4 11 0	
6½ 0 12	11 9 0		6 0 10	10 0 0		3½ 0 6½	6 6 6	
.....	
.....	
.....	
.....	18 0 0		.....	18 0 0		.....	18 0 0	
11½ 10½ 0	10 6 3		9 4½ 0	7 0 6		4½ 0 3	7 15 6	
34 47 45½	51 2 9		39½ 6 73	72 3 0		41 4 89	62 8 0	
28½ 35 2	20 5 0		33½ 1 0	21 4 0		7½ 0 0	4 13 6	
27½ 89½ 0	45 0 0		24½ 7 0	15 7 6		48½ 17½ 0	35 11 3	
.....	
.....	
12½ 17 0	8 5 9		9 2 0	6 4 0		6 2½ 0	4 8 6	
1½ 118 0	36 4 0		31½ 124 0	58 4 6		54½ 4 0	34 8 6	
.....	
.....	
.....	14½ 5½ 0		10 10 0	36½ 0 0		32 15 6		
126½ 223½ 68½	209 12 9		166½ 150 87	222 13 6		210½ 24½ 103½	221 13 3	

Note.—There is a sudden rise in expenditure from the year 1923-24.

The obvious reason being that the plot was brought under lift-irrigation, it being under canal irrigation for the first two years. It will be seen that the expenditure for the last three years is more or less steady.

APPENDIX

Statement showing figures of return for

No.	Name of the crop	1921-1922			1922-23		
		Quantity in lb. oz.	Rate per lb.	Value Rs. a. p.	Quantity in lb. oz.	Rate per lb.	Value Rs. a. p.
1	Yield of the main crop, fig ...	65 12 $\frac{1}{2}$	5 as.	17 8 0	656 11 $\frac{1}{2}$	5 as.	205 5 0
2	Sub-crop, Tomato ...	7,742 0	1 a.	241 15 0	1,644 0	1 a.	102 12 0
	Total ...	... ...		259 7 0	...	...	308 1 0

Calculations per acre

Years	Yield of the main crop Fig	Yield of the sub- crop, Tomato		Value per acre
		lb.	lb.	
1921-22	74 $\frac{1}{2}$	10,322 $\frac{1}{2}$	345 14 5
1922-23	875 $\frac{1}{2}$	2,192	410 12 0
1923-24	1,627 $\frac{1}{2}$	.... -	506 4 0
1924-25	1,449 $\frac{1}{2}$	....	452 15 0
1925-26	2,120 $\frac{1}{2}$	....	530 2 8

No. 1 (b)

jig crop, for five years from 1921 to 1926

1923-24			1924-25			1925-26		
Quantity in lb.	Rate per lb.	Value Rs. a. p.	Quantity in lb. oz.	Rate per lb.	Value Rs. a. p.	Quantity in lb. oz.	Rate per lb.	Value Rs. a. p.
1,220	5 as.	381 4 0	1,087 1	5 as.	339 11 3	1,590 8 $\frac{1}{2}$	4 as.	397 10 0
..	..	381 4 0	..	..	339 11 3	..	..	397 10 0

N.D.—1. There is a steady rise in the income till the end of the third year. The fall for the year 1924-25 is due to the abnormal season, i.e., excessive cold and actual occurrence of frost in January, at the time of the development of fruits.

2. The value of the yield for the first year mainly consists of the sub-crop of tomato. During the second year the proportion of value of main crop to the sub-crop is 2:1. From the third year onwards raising of the sub-crop was discontinued.

APPENDIX No. 1 (c)
**Statement showing annual dividend on the capital
 invested for fig crop 1921-1926**

No.	Items per acre	1921-22	1922-23	1923-24	1924-25	1925-26
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Cost of cultivation	262 5 4	197 6 4	279 11 8	297 2 0	295 12 4
2	Supervision charges	24 9 6	19 8 0	26 4 0	27 13 6	27 12 0
3	Marketing charges	6 8 0	1 14 8	1 0 0	0 14 3	1 5 4
4	Assessment of land	3 11 3	3 11 3	3 11 3	3 11 3	3 11 3
		297 2 1	221 8 3	310 10 11	329 9 0	328 8 11
5	Interest at 9 per cent. on the sum invested.	28 12 0	19 15 0	27 15 3	29 10 6	29 9 0
		323 14 1	241 7 3	338 10 2	359 3 6	358 1 11
6	Value of the yield	345 14 5	410 12 0	508 4 0	452 15 0	530 2 5
		22 0 0	169 4 0	169 9 10	98 11 6	172 0 9
7	Gain	1 3 6	9 7 0	9 8 0	5 3 4	9 8 10
8	Taking the value of land at Rs. 1,800 per acre at Poona the dividend per 100 comes to.					

Years	Dividend per cent.
	Rs. a. p.
1921-22	1 3 6
1922-23	9 7 0
1923-24	9 8 0
1924-25	5 3 4
1925-26	9 8 10

APPENDIX No. 2 (a)

APPENDIX

*Statement showing figures of cultivation for
Area—25 gunthas.*

No.	Operations, etc.	1921-22			1922-23								
		Labour		Cost	Labour		Cost						
		Men	Wo.	Bull	Rs.	a. p.	Rs.	a. p.					
1	Ploughing	4	0	8	7	8	0	3	0	6	5	10	6
2	Harrowing and levelling	5	0	11	10	5	0	9	0	19	17	13	0
3	Digging pits	54	2	0	34	8	6	.....	.....	.....	.....	.....	.....
4	Cost of plants (Rs.)	.....	.....	.....	19	0	0	.....	.....	.....	.....	.....	.....
5	Planting	10	5	0	17	15	6	.....	.....	.....	.....	.....	.....
6	Manure and manuring	4	4	5	42	15	0	0	2	0	20	14	0
7	Preparation of beds	6	0	0	3	12	0	26	1	2	18	2	0
8	Irrigation and watering	7	0	0	4	13	6	34	2	24	37	0	0
9	Interculture	6	2	0	4	18	6	11	38	0	18	12	0
10	Inter crop	.....	.....	.....	.....	.....	.....	11	20	10	19	14	0
11	Harvesting and watching	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Miscellaneous (includes preparation of bags, spraying, tying of bags, etc.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total	98	10	24	144	11	0	95	63	61	138	2	3

Years	Cost for the plot	Cost calculated per acre
		Rs. a. p.
1921-22	144 11 0	231 8 0
1922-23	138 2 3	221 0 8
1923-24	102 4 6	163 10 5
1924-25	155 7 9	248 12 5
1925-26	200 15 3	321 8 5

No. 2 (a)

Pomegranate Crop for five years from 1921-1926

Spacing—15' either way

1923-24			1924-25			1925-26		
Labour	Cost		Labour	Cost		Labour	Cost	
Men Wo. Bull	Rs. a. p.		Men Wo. Bull	Rs. a. p.		Men Wo. Bull	Rs. a. p.	
6½ 0 13	12 8 0		1½ 0 1	1 4 0		9 0 18	16 14 0	
3½ 0 7	6 9 0		2½ 0 5½	5 2 6		1½ 0 3	9 18 0	
.....	
.....	
.....	
2½ 0 0	21 18 0		10 0 4	29 0 0		11 0 8	30 14 0	
13 0 1	8 13 0		20 0 0	12 15 6		13 0 0	8 8 6	
8½ 1 1½	19 11 0		29½ 1½ 5½	53 3 3		22 0 40½	39 3 6	
9½ 67½ 0	27 1 9		9 29½ 0	14 13 6		19 47½ 0	26 10 3	
1 17½ 0	6 2 9		.....	.....		.....	.....
.....	.....		4½ 64½ 0	22 13 0		4½ 126½ 0	42 3 0	
.....	.....		26 0 0	16 4 0		54 0 0	33 12 0	
44½ 86½ 22½	102 4 6		103 95 65½	155 7 9		134 173 67½	200 15 3	

This amount includes the value of manure of Rs. 45-12-0. For the successive years an amount of Rs. 20-4-0 is added as the value of manure.

* The plot was under canal irrigation for the year and hence the amount includes Rs. 13-2-0 as irrigation charges.

; Figures for ploughing are taken in the next year as the operation was done after the financial year.

APPENDIX

Statement showing figures of Return for Pomegranate

No.	Name of the crop	1921-1922			1922-23		
		Quantity in	Rate per	Value	Quantity in	Rate per	Value
				Rs. a. p.			Rs. a. p.
1	Yield of the main crop	...	...	...	...	...	...
2	Yield of the sub-crop	...	*	...	1,055 lb. 6 pies (knol per lb. khol).	32 15 6	
	Total	...	...	...	...	...	32 15 6

*Inter or sub-crop could be taken. But in the particular example it could not be taken as construction work was going on in the plot.

Calculations per acre

Years	Yield of the main crop	Yield of the sub- crop	Value per acre	
			Rs. a. p.	Rs. a. p.
1921-22	...	Nil	Nil	....
1922-23	...	Nil	1,688 lb. Knokhol.	52 13 0
1923-24	...	Nil	1,157 lb. Bhendi, gowar.	72 5 0
1924-25	...	3,173	Nil	397 9 7
1925-26	...	12,157	1,349 lb. Bhendi, gowar.	780 13 0

No. 2 (b)

Crop for five years from 1921 to 1926

1923-24			1924-25			1925-26		
Quantity in	Rate per	Value	Quantity in	Rate per	Value	Quantity in	Rate per	Value
	Rs. a. p.		numbers	fruit	Rs. a. p.	numbers	fruit	Rs. a. p.
723 lb. Bhendi and gowar.	1 anna per lb.	45 3 0	... 692 (Alan- di). 1,391 (Dholka).	1 anna. 2 annas	43 6 0 163 6 0	7,598 (both varieties).	1 anna. 3 pies per lb.	474 14 0 13 2 9
...	...	45 3 0	...	...	204 12 0	...	...	389 0 9

+The main crop was lost by the anax caterpillar pest as the effective method of controlling by paper bagging was not known at that time.

APPENDIX No. 2 (c)

*Statement showing Annual Dividend on the capital invested
for Pomegranate Crop 1921-1926*

No.	Items per acre	1921-1922	1922-1923	1923-1924	1924-1925	1925-1926
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Cost of cultivation	231 8 0	221 0 8	163 10 5	248 12 5	321 8 0
2	Supervision charges	21 11 6	20 11 6	15 5 3	23 5 0	30 2 3
3	Marketing charges	.....	0 10 6	9 7 3	1 4 0	5 4 0
4	Assessment of land	3 11 3	3 11 3	3 11 3	3 11 3	3 11 3
		256 14 9	246 1 11	183 2 2	277 0 8	330 16 7
5	Interest at 9 per cent. on the sum invested.	23 2 0	22 2 6	16 8 0	24 15 0	32 6 0
		280 0 9	263 4 5	199 10 2	301 15 8	393 0 13
6	Value of the yield	.....	52 13 0	72 5 0	327 9 7	750 13 0
7	Gain	250 0 9	215 7 5	127 5 2	25 9 11	387 12 0
8	Taking the value of the land at Rs. 1,500 per acre at 100% the dividend per cent. comes to	(Loss: 15 8 0) Loss per cent:	(Loss: 11 15 1) Loss per cent:	(Loss: 7 1 3) Loss per cent:	1 6 3	21 8 0

Years Dividend per cent.

	Rs. a. p.
1921-22	15 8 0
1922-23	11 15 1
1923-24	7 1 3
1924-25	1 6 3
1925-26	21 8 0

APPENDIX No. 3 (a)

Statement showing figures of cultivation for Papaya crop for three years from 1921 to 1924

Area, 16 gunthas. Spacing, 8 feet either way. Life of the plantation, 2 years and 4 months.)

No.	Operations, etc.	1921-22			1922-23			1923-24					
		Labour		Cost	Labour		Cost	Labour		Cost			
		M.	Wo.	Bull	Rs. a. p.	M.	Wo.	Bull	Rs. a. p.	M.	Wo.	Bull	Rs. a. p.
1	Ploughing	4	0	8	7 8 0	3½	0	7	6 9 0	....	....	....	....
2	Harrowing and levelling.	7	3	11	12 3 0	3½	0	6½	6 1 6	2½	0	5	4 11 0
3	Cost of plants (500 seedlings).	.....	5	0	0	.....	.....	.....	.....	.....	.....	.....	.....
4	Planting	6	0	0	3 12 0	.....	.....	.....	.....	.....	.....	.....	.....
5	Manure and manuring.*	.....	5	0	0	13	8½	0	41 11 3	8	0	0	36 0 0
6	Preparation of beds.	9	0	5	8 12 0	58½	5	9½	89 13 6	31	6	1	21 0 0
7	Irrigation and watering.+	13½	0	0	23 7 6	21½	3	4	31 7 8	31½	3½	0	29 14 0
8	Interculture	0	12½	0	3 14 6	7	72	0	26 14 0	11	86½	0	33 15 9
9	Intercrop	36	16	19	39 8 6	½	3	0	1 4 0	....	....	....	....
10	Harvesting	.....	.....	.....	1½	3	0	1 4 0	6½	2	0	4 11 0	.....
	Total	75½	31½	43	109 1 6	109½	89½	20	155 0 11	80½	97½	6	130 12 9

* In the second and third year the amount contains the value of manure Rs. 31 only.

+ Throughout the irrigation charges are Rs. 15-3-0.

Years	Total cost	Cost calculated per acre	
		Rs. a. p.	Rs. a. p.
			Rs. a. p.
1921-22	109 1 6	272	11 9
1922-23	155 0 11	387	10 6
1923-24	130 12 9	326	15 10

APPENDIX

Statement showing figures of return for

No.	Name of the crop	1921-22		
		Quantity	Rate	Value
			Rs. a. p.	
1	Yield of the main crop, Papaya	.....	.....	.....
2	Yield of the sub-crop	4,375 lb. (brinjals).	9 pies per lb.	206 1 3
	Total ...	.....	.....	206 1 3

Calculations per acre

Years	Yield of the main crop in numbers	Yield of the sub-crop	Value per acre
1921-22	...	10,937½ lb. (brinjals)	Rs. a. p. 512 11 0
1922-23	...	6,837 number of fruits.	729 11 0
1923-24	...	9,705 number of fruits.	1,213 2 0

No. 3 (b)

Papaya crop for three years from 1921 to 1924

1922-23			1923-24		
Quantity	Rate	Value	Quantity	Rate	Value
2,335 number of fruits.	At 2 annas per fruit.	Rs. a. p. 291 14 0	3,682 number of fruits.	At 2 annas per fruit.	Rs. a. p. 485 4 0
.....
.....	.....	291 14 0	.....	.....	485 4 0

APPENDIX No. 3 (c)

*Statement showing annual dividend on the capital invested
for Papaya crop 1921-1924*

No.	Items per acre	1921-22	1922-23	1923-24
		Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Cost of cultivation	272 11 9	387 10 6	326 16 10
2	Supervision charges	25 9 0	36 5 6	30 10 6
3	Marketing charges	2 11 9	1 7 3	2 6 9
4	Assessment of land	3 11 3	3 11 3	3 11 3
		304 11 9	420 2 6	363 12 4
5	Interest at 9 per cent. on the sum invested.	27 7 0	35 10 0	32 12 0
		332 2 9	467 12 6	396 8 4
6	Value of the yield	512 11 0	729 11 0	1,213 2 0
7	Gain	180 8 3	261 14 6	816 9 6
8	Taking the value of the land at Rs. 1,500 per acre at Poona the dividend in Rupees per cent. was.	10 0 0	14 9 0	45 5 3

Year	Dividend per cent. on money invested in land
	Rs. a. p.
1921-22	10 0 0
1922-23	14 9 0
1923-24	45 5 3

APPENDIX . No. 4 (a)

APPENDIX

*Statement showing figures of cultivation for Banana crop,
(Area, 10 gunthas.)*

No.	Operations, etc.	1921-22			1922-23					
		Labour		Cost	Labour					
		M.	Wo.	Bull.	Rs.	a.	p.	M.	Wo.	Bull.
1	Ploughing crosswise	...	...	4 0 8	7 8 0	4 0 8				
2	Harrowing	...	...	½ 0 1	0 15 0	½ 0 1				
3	Digging pits $2\frac{1}{2}' \times 2\frac{1}{2}' \times 2\frac{1}{2}'$ (114)	...	...	38½ 0 0	17 13 0	...				
4	Cost of suckers	...	...	.....	12 8 0	.....			
5	Planting	...	...	8 0 0	5 0 0	.....			
6	Manure and manuring	...	...	14½ 0 0	31 6 6	11 0 0				
7	Preparation of beds (twice)	...	...	11½ 0 0	7 3 0	11 0 0				
8	Irrigation and watering	...	...	8 0 0	10 0 0	8 0 0				
9	Interculture	...	...	0 19 0	5 15 0	4 19 0				
10	Intercrop	...	...	.....	.....	.....
11	Harvesting	...	...	.....	.....	.....
12	Manuring second time	...	...	0 4 0	23 12 0	.....			
13	Miscellaneous	...	...	.....	.....	.....
		Total	...	74 23 9	122 0 6	38½ 19 9				

Years	Total cost for the plot	Cost calculated per acre
		Rs. a. p.
1921-22	122 0 6	488 2 0
1922-23	85 10 0	342 8 0
1923-24	85 5 0	341 4 0
1924-25	85 5 0	341 4 0
1925-26	85 5 0	341 4 0

No. 4 (a)

Rajapuri variety, for five years 1921-1926

Spacing, 10 feet either way)

Cost	1923-24			1924-25	1925-26	
	Rs.	a.	p.	Labour	Cost	
M.	W.	Bull.		Rs.	a.	p.
7 8 0	4	0	8	7 8 0		
6 15 0	½	0	1	0 15 0		
.....		
.....		
.....		
61 14 0	8	4	0	51 4 0	Further annual expenses are almost constant.	
6 14 0	19	0	0	11 14 0		
10 0 0	8	0	0	10 0 0		
8 7 0	0	12	0	3 12 0		
.....		
.....		
.....		
.....		
86 10 0	39½	16	9	85 5 0		

APPENDIX

Statement showing figures of return for

No.	Name of the crop	1921-22			1922-23		
		Quantity	Rate	Value	Quantity in number of fruits	Rate	Value
					Rs. a. p.		
1	Yield of the main crop, Banana.	...	...	.....	23,762	Rs. a. per doz.	355 10 6
2	Yield of the sub-crop	...	...	.....	...	...	.....
	Total	...	...	.....	...	...	355 10 6

Calculated per acre

Years	Yield of the main crop, Banana, in number of fruits	Yield of the sub-crop	Value per acre	
			Rs.	a. p.
1921-22	...	Nil.	Nil.	.....
1922-23	...	91,049	Nil.	1,423 10 0
1923-24	...	61,016	Nil.	963 6 0
1924-25	...	61,776	Nil.	965 4 0
1925-26	...	80,128	Nil.	1,253 0 0

No. 4 (b)

Banana Crop for five years from 1921 to 1926

1923-24			1924-25			1925-26		
Quantity in number of fruits	Rate	Value	Quantity in number of fruits	Rate	Value	Quantity in number of fruits	Rate	Value
		Rs. a. p.			Rs. a. p.			Rs. a. p.
15,254	3 as. per doz.	238 5 6	15,441	3 as. per doz.	241 5 0	20,032	3 as. per doz.	313 0 0
...
...	...	238 5 6	...	...	241 5 0	...	...	313 0 0

APPENDIX No. 4 (c)

*Statement showing annual dividend on the capital invested
for Banana Crop 1921-1926*

No.	Items per acre	1921-22		1922-23		1923-24		1924-25		1925-26				
		Rs.	a.	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.		
1	Cost of cultivation	488	2	0	342	8	0	341	4	0	341	4	0	
2	Supervision charges	45	12	0	32	1	9	31	15	0	31	15	0	
3	Marketing charges	14	3	6	9	8	0	9	8	0	9	10	0	
4	Assessment of land	3	11	3	3	11	3	3	11	3	3	11	3	
		551	12	9	387	13	0	386	6	3	386	8	3	
5	Interest at 9 per cent. on the sum invested.	49	10	0	35	0	0	34	14	0	34	14	0	
		601	6	9	422	13	0	421	4	3	421	6	3	
6	Value of the yield	Nil		1,422	10	0	963	6	0	965	4	0		
		601	6	9	999	13	0	532	1	9	543	13	9	
8	Taking the value of the land at Rs. 1,800 per acre at Poocha the dividend in Rupees per cent. was.	33	5	4	(Loss)	55	9	0	29	8	0	30	0	0
		33	5	4	(Loss)	55	9	0	29	8	0	30	0	0
		46	0	0		46	0	0	46	0	0	46	0	0

Year	Dividend per cent. on money invested in land	
	Rs.	a.
1921-22	33	5
1922-23	55	9
1923-24	29	8
1924-25	0	0
1925-26	46	0

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