



Scale 4 Miles to an inch. Position of the Village of Jategaon Budruk in relation to Poona.

R. I.
(space)

UNIVERSITY OF BOMBAY
ECONOMIC SERIES, No. III.

LAND AND LABOUR
IN A
DECCAN VILLAGE

STUDY No. 2.

BY

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AND

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PREFACE

THE study of rural life and of rural conditions by close inquiry into the circumstances of a single unit, be it village, parish, or estate, has come to the front prominently in recent years as a method of social and economic investigation. And by the use of this method, if the villages to be studied are well chosen, a very much more intimate acquaintance with the actual conditions of life than by any other method can be obtained. And this is certainly true in the Deccan where the villages are still the economic and social units in a sense that is far more true than is the case in most countries, and to an extent which even in India is, I think, only found in the Peninsula. The villages are perhaps now tending to be less the relatively isolated units than hitherto, but they are still so to an extent that gives the knowledge even of a single village a very special value for the study of the whole rural conditions of the country.

On this account, with the collaboration of a number of friends and assistants, I undertook some years ago the study of a single village near Poona, and the result was published in 1917 under the title of 'Land and Labour in a Deccan Village.*' This purported to give a picture of life and conditions in a 'dry' Deccan village. By a 'dry' village, I mean one where irrigation is very limited in amount and where the prosperity of the village depends almost entirely on the annual monsoon rain. That study revealed a number of unexpected facts, and the general conclusions which I drew were certainly of a far more depressing character than I had expected. Only one serious criticism has, however, been made. It is said that

*University of Bombay, Economic Series No. 1 (Oxford University Press, Bombay).

the village chosen (Pimpla Soudagar) was not typical and did not represent the conditions in any large area in the Deccan. It was, so critics averred, too near Poona, and had too many of its inhabitants working at non-agricultural occupations to be in any sense a type of what would be found further afield.

I, at once, recognised the justice of this criticism. And as a result my collaborators and myself began to seek for a village which while otherwise of a similar character would be free from the defects noted in the former study. This led us to the village which forms the basis for the present study. Jategaon Budruk, though double the size of Pimpla Soudagar in point of area has a population not widely different. The proportion of irrigated area is of the same order. The class of land is not unlike. But it is twenty-five miles from Poona from which, till recently, it was separated by an unbridged road, and it has no local demand for labour for purposes not found in any rural area. It differs truly in another sense, in that it is in an area of smaller and more uncertain rainfall, and as we shall see, this uncertainty is one of the chief features in the village life. But it certainly is typical of a very large area in the Deccan, and I do not think that any criticism can be made of the present study that it does not represent conditions occurring over extensive areas.

The actual local inquiry has been chiefly made by my colleagues, and, in fact, it is to them and their careful collection and recording of data that any real value that the present study may possess is due. Mr. N. V. Kanitkar, B. Sc., who shares with me the responsibility of the present publication, lived for a long time on the spot, and became the friend and confidant of almost the whole of the people. Mr. D. L. Sahasrabuddhe, B. Sc., did the same, and a number of students from the Poona Agricultural College spent the greater part of their annual vacation in assisting in the inquiry. Beyond this many data had to be collected

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from various Government offices. Some facts are in the office of the District Inspector; others in that of the Mamlatdar of the taluka; others are guarded by the Director of Agriculture. For the older history of the village we were allowed to examine and copy the manuscript records in the Poona record office. And, we had, moreover, to request information from many other sources. But we have always been furnished with the data we wanted, or with permission to dig them out for ourselves, with great readiness, and for this our heartiest thanks are due to the various authorities and officials concerned.

HAROLD H. MANN.

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APPENDIX I.

Analyses of the Water of the Vel River at Jategaon Budruk.

(See page 24)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts.	32.00	34.00	26.00	36.00
Containing—				
Calcium carbonate	8.00	10.00	6.00	8.00
Magnesium carbonate	3.05	3.05	3.05	9.13
Sodium carbonate	1.03	—	—	—
Sodium bicarbonate	4.76	6.43	4.06	5.02
Sodium sulphate	2.46	3.69	3.69	4.88
Sodium chloride	9.24	4.62	4.62	6.93

APPENDIX II.

Analyses of the *Nala* Water at Jategaon Budruk.

(See page 25)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	42.00	40.00	44.00	48.00
Containing—				
Calcium carbonate	6.00	8.00	10.00	8.00
Magnesium carbonate	4.58	10.68	3.05	9.13
Sodium carbonate	2.06	1.03	—	—
Sodium bicarbonate.	9.80	2.38	9.66	10.23
Sodium sulphate.	4.92	2.46	6.15	4.88
Sodium chloride	9.24	9.24	13.86	11.55

APPENDIX III.

Analyses of Well Water at Jategaon Budruk.

(See pages 28-29)

Well No. 1 (Survey No. 13).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	34.00	32.00	40.00	40.00
Containing—				
Calcium carbonate	10.00	10.00	10.00	10.00
Magnesium carbonate	7.63	7.63	6.10	6.08
Sodium carbonate	1.03	—	—	—
Sodium bicarbonate.	3.12	3.12	10.62	4.69
Sodium sulphate	2.46	2.46	4.92	7.32
Sodium chloride	4.62	4.62	4.62	9.24

Well No. 2 (Survey No. 15).

	8th April 1917	9th June 1917	10th Oct. 1917	Jan. 1918
	Parts per 100,000			
Total Salts	28.00	30.00	30.00	28.00
Containing—				
Calcium carbonate	10.00	12.00	10.00	16.00
Magnesium carbonate	3.05	1.44	6.10	1.71
Sodium bicarbonate.	7.98	8.40	5.04	—
Sodium sulphate	1.23	2.46	2.46	—
Sodium chloride	4.62	4.62	4.62	4.62
Magnesium sulphate	—	—	—	3.70

Well No. 3 (Survey No. 17).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	34·00	32·00	34·00	36·00
Containing—				
Calcium carbonate	12·00	10·00	10·00	16·00
Magnesium carbonate	7·63	7·63	4·58	7·61
Sodium carbonate	1·03	—	—	—
Sodium bicarbonate	1·82	5·18	8·15	1·55
Sodium sulphate	1·23	2·46	3·69	1·64
Sodium chloride	5·78	4·62	5·78	4·62

Well No. 4 (Survey No. 19) (*Kaccha*.)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts.	36·00	36·00	36·00	38·00
Containing—				
Calcium carbonate	12·00	10·00	12·00	14·00
Magnesium carbonate	3·05	6·10	7·63	7·37
Sodium carbonate	—	—	—	—
Sodium bicarbonate	9·80	7·43	4·98	—
Sodium sulphate	2·46	2·46	2·46	—
Sodium chloride	4·62	4·62	4·62	6·93
Magnesium sulphate	—	—	—	4·10

Well No. 5 (Survey No. 25 (*Kaccha*.)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	40·00	38·00	33·00	38·00
Containing—				
Calcium carbonate	6·00	8·00	10·00	4·00
Magnesium carbonate	9·16	9·34	4·58	11·17
Sodium carbonate	1·03	1·03	—	1·04
Sodium bicarbonate	7·00	4·42	8·12	6·62
Sodium sulphate	2·46	2·46	2·46	3·66
Sodium chloride	9·24	6·93	6·93	9·24

Well No. 6 (Survey No. 35) (*Kaccha*.)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	36·00	36·00	36·00	42·00
Containing—				
Calcium carbonate	10·00	10·00	4·00	8·00
Magnesium carbonate	7·63	4·58	3·05	18·10
Sodium carbonate	—	—	—	—
Sodium bicarbonate	7·56	9·66	14·70	1·12
Sodium sulphate	1·23	2·46	4·92	2·44
Sodium chloride	6·93	6·93	6·93	9·24

Well No. 7 (Survey No. 36).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	32.00	40.00	34.00	38.00
Containing—				
Calcium carbonate	4.00	10.00	10.00	8.00
Magnesium carbonate	1.52	4.58	4.58	4.55
Sodium carbonate	1.03	1.57	—	—
Sodium bicarbonate	13.58	8.12	7.56	13.39
Sodium sulphate	2.46	3.69	2.46	3.66
Sodium chloride	6.93	4.62	6.93	6.93

Well No. 8 (Survey No. 36). (Near Nala.)

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	80.00	48.00	38.00	42.00
Containing—				
Calcium carbonate	12.00	6.00	4.00	10.00
Magnesium carbonate	13.64	4.58	4.58	3.04
Sodium carbonate	—	—	—	1.04
Sodium bicarbonate	17.22	11.48	18.06	12.88
Sodium sulphate	6.15	7.38	2.46	2.44
Sodium chloride	25.41	13.86	6.93	9.24

Well No. 9 (Survey No. 37).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	36.00	40.00	40.00	44.00
Containing —				
Calcium carbonate	12.00	10.00	12.00	12.00
Magnesium carbonate	3.05	7.63	3.05	10.65
Sodium carbonate	—	—	—	0.52
Sodium bicarbonate	9.80	6.72	11.20	0.49
Sodium sulphate	2.46	7.38	3.69	8.54
Sodium chloride	5.78	6.93	4.62	6.93

Well No. 10 (Survey No. 38).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	36.00	38.00	40.00	28.00
Containing —				
Calcium carbonate	8.00	10.00	12.00	12.00
Magnesium carbonate	4.58	10.68	4.58	4.56
Sodium carbonate	1.03	—	—	—
Sodium bicarbonate	8.54	3.64	7.98	2.80
Sodium sulphate	2.46	3.69	3.69	2.44
Sodium chloride	6.93	4.62	6.93	4.62

Well No. 11 (Survey No. 38).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	28.00	40.00	38.00	36.00
Containing—				
Calcium carbonate	4.00	14.00	8.00	10.00
Magnesium carbonate	3.05	6.10	4.58	4.56
Sodium carbonate	1.03	—	—	—
Sodium bicarbonate	10.64	8.26	12.18	11.38
Sodium sulphate	1.23	2.46	2.46	3.66
Sodium chloride	5.78	4.62	5.78	4.62

Well No. 12 (Survey No. 42).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	22.00	24.00	26.00	18.00
Containing—				
Calcium carbonate	4.00	6.00	6.00	4.00
Magnesium carbonate	3.05	4.58	3.05	3.04
Sodium carbonate	—	—	—	0.52
Sodium bicarbonate	6.02	4.20	10.04	4.03
Sodium sulphate	1.23	2.46	1.23	3.66
Sodium chloride	3.46	4.62	3.46	2.31

Well No. 13 (Survey No. 42).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	40.00	44.00	48.00	40.00
Containing —				
Calcium carbonate	12.00	10.00	14.00	16.00
Magnesium carbonate	7.60	4.58	6.10	9.13
Sodium bicarbonate	7.80	12.18	7.32	5.25
Sodium sulphate	1.23	2.46	3.69	2.44
Sodium chloride	6.93	9.24	9.24	6.93

Well No. 14 (Survey No. 43).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts.	50.00	32.00	36.00	42.00
Containing —				
Calcium carbonate	8.00	6.00	6.00	8.00
Magnesium carbonate	4.56	3.05	3.05	7.61
Sodium carbonate	—	1.03	—	0.52
Sodium bicarbonate	13.16	9.80	13.85	10.01
Sodium sulphate	2.46	2.46	1.23	3.66
Sodium chloride	13.86	6.93	9.24	9.24

Well No. 15 (Survey No. 63).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	64.00	70.00	68.00	54.00
Containing—				
Calcium carbonate	8.00	6.00	8.00	4.00
Magnesium carbonate	4.56	4.56	6.10	14.10
Sodium carbonate	—	2.06	—	4.16
Sodium bicarbonate	19.60	19.60	18.90	—
Sodium sulphate	3.69	7.38	3.69	—
Sodium chloride	23.10	23.10	23.10	23.10
Magnesium sulphate	—	—	—	3.07

Well No. 16 (Survey No. 64).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	68.00	60.00	58.00	64.00
Containing—				
Calcium carbonate	6.00	8.00	6.00	10.00
Magnesium carbonate	4.56	3.05	9.16	13.70
Sodium carbonate	—	1.03	—	—
Sodium bicarbonate	22.36	19.74	15.04	10.94
Sodium sulphate	3.69	3.69	2.46	6.10
Sodium chloride	23.10	18.48	18.48	18.48

Well No. 17 (Survey No. 95):

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts.	38.00	40.00	40.00	42.00
Containing—				
Calcium carbonate	8.00	12.00	12.00	14.00
Magnesium carbonate	4.56	3.05	7.63	9.13
Sodium carbonate	—	—	—	1.04
Sodium bicarbonate.	10.78	7.98	5.87	2.06
Sodium sulphate	1.23	3.69	1.23	4.88
Sodium chloride	6.98	6.93	4.62	9.24

Well No. 18 (Survey No. 102).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts.	44.00	44.00	44.00	44.00
Containing—				
Calcium carbonate	16.00	14.00	14.00	8.00
Magnesium carbonate	3.05	3.05	9.16	9.13
Sodium carbonate	1.03	—	—	—
Sodium bicarbonate.	7.98	13.58	3.50	11.97
Sodium sulphate.	2.46	2.46	2.46	1.22
Sodium chloride	9.24	6.93	6.93	9.24

Well No. 19 (Survey No. 156).

New Well.

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	38.00	36.00	36.00	38.00
Containing—				
Calcium carbonate	6.00	6.00	6.00	6.00
Magnesium carbonate	4.58	4.53	7.63	9.13
Sodium carbonate	—	—	—	—
Sodium bicarbonate	17.08	16.33	10.08	11.91
Sodium sulphate	2.46	1.23	2.46	2.44
Sodium chloride	4.62	4.62	4.62	6.23

Well No. 20 (Survey No. 156) (*Kaccha*).

Old Well.

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	46.00	43.00	40.00	48.00
Containing—				
Calcium carbonate	10.00	10.00	12.00	8.00
Magnesium carbonate	6.15	6.10	7.63	13.70
Sodium carbonate	—	—	—	—
Sodium bicarbonate	11.48	11.49	8.30	7.42
Sodium sulphate	2.46	2.46	2.46	4.88
Sodium chloride	9.24	11.55	6.93	11.55

Well No. 21 (Survey No. 157).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	40.00	42.00	52.00	44.00
Containing —				
Calcium carbonate	4.00	12.00	14.00	12.00
Magnesium carbonate	3.05	9.14	6.10	13.70
Sodium carbonate	2.06	1.03	—	—
Sodium bicarbonate	11.48	6.86	8.13	2.32
Sodium sulphate	2.46	3.60	6.15	3.66
Sodium chloride	11.55	6.93	13.86	9.24

Well No. 22 (Survey No. 162).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	50.00	48.00	46.00	52.00
Containing —				
Calcium carbonate	6.00	8.00	10.00	12.00
Magnesium carbonate	3.05	7.63	4.58	7.61
Sodium carbonate	—	—	—	—
Sodium bicarbonate	20.30	11.76	13.02	10.12
Sodium sulphate	3.69	3.69	6.15	9.76
Sodium chloride	11.55	9.24	8.09	9.24

Well No. 23 (Survey No. 179).

	8th April 1917	9th June 1917	10th October 1917	Jan. 1918
	Parts per 100,000			
Total Salts	44.00	38.00	44.00	42.00
Containing				
Calcium carbonate	14.00	12.00	14.00	10.00
Magnesium carbonate	3.05	3.05	3.05	7.61
Sodium carbonate	—	—	—	—
Sodium bicarbonate	7.78	7.98	9.52	9.73
Sodium sulphate	4.92	3.69	4.92	5.54
Sodium chloride	9.24	6.93	5.78	6.93

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