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MADRAS RECORD OFFICE

Government of Madras

Rev. DEPARTMENT

G.O. No.	87	Press
B.P. No.		Mis.
Dated	14.5.1872-195	

Not to be folded or roughly handled

Mineral matters removed in
a fair crop of Potatoes.

Taking the Crop at 8 tons of tubers, and
4 1/2 tons of tops, there is abstracted from
an Acre:—

In the tubers, 400 lbs. mineral matters
In the tops... 180 lbs — " — "
580 lbs.

	In the tubers. lbs	In the tops. lbs	Total lbs
Potash	223.00	50.43	273.43
Soda	7.44	29.27	36.71
Magnesia	21.12	12.76	33.88
Lime	8.28	30.53	38.81
Phosphoric Acid	50.28	13.71	63.99
Sulphuric Acid	54.56	12.38	66.94
Silica	16.92	6.93	23.85
Peroxide of iron & loss —	—	1.80	1.80
Chloride of Sodium 18.40 chlorine	22.19	—	40.59
<u>Total</u>	<u>400.00 lbs</u>	<u>180.00</u>	<u>580.00.</u>

(True copy)

(Sd) W. R. Robertson

(True copy)

J. W. Cunningham
Secretary

W. L. Luper
C. J. M. B.

PROCEEDINGS OF THE BOARD OF REVENUE,

Dated

10th May 1872.

Read the following

No. 327.

From

The Superintendent
Quadrant Latent.

To

The Secretary, Board of Revenue.

Sir,

I have the honor to acknowledge the receipt of the Proceedings of the Board at 2960 dated 23rd of April 1872, with a copy of Mr. Turner's Report on the Potatoe Experiment conducted in his District. The White grub referred to by Mr. Turner is not in my opinion the Cause of the failure of the Experiment; this grub may have done injury to the crop; but I am inclined to believe that its attacks would, by preference, be made upon plants already in an unhealthy state, the result of unsuitable climatic condition, poverty or bad physical state of the soil. All or any of these causes may have contributed to

to bring about the result reported.

3. I am in possession of no information regarding the meteorology of the district, but I should imagine that the average temperature is much too high for the proper growth of the Potatoe, under field Cultivation. In districts, where the average temperature of night and day rises above 60 degrees, the Potatoe is a very uncertain crop.

4. Potatoe requires a deep loamy fertile soil, one especially rich in Potash salts; Lime must be present but not in such large proportions. The accompanying statement shows clearly what minerals are removed from the soil, by a single crop of Potatoes. Unless these are present in the soil, in a sufficient quantity and in a suitable form, the plant cannot yield satisfactory results.

5. The physical state of the soil

is also of great importance. It matters not how rich it may be in plant food, if from bad drainage, inferior Cultivation, or any similar cause, this food cannot be appropriated by the growing plant.

6. A deep loamy soil should be selected; this should be deeply Cultivated and thoroughly manured with organic manure of any sort; also, with Lime (Carbonate, or Sulphate), or Bones (which besides Lime will yield Phosphoric Acid); some Potash yielding manure, either Saltpetre (Nitrate of Potash) or, Wood ashes; and a small dressing of Common salt (Chloride of Sodium). If the land is to be occasionally watered, the soil should be ridged; the Potatoe should be planted on the ridge; and

The

The water passed down between the ridges, Care being Exercised, that the water is not allowed to accumulate and stagnate between the rows of Potatoes.

Government Lands Office } I have to.
Sydney. Indorsed } (Signed) W. R. Robinson
25th April 1872 }

Communicated to,
Mr. Lumsden through the Collector
of Vizagapatnam.

(Signed) J. B. Pennington,
Sub-Secretary

Sub-Secretary
To Mr. Ludlow, through the Collector of Vizagapatam
(Enclosure)

W. Hemmings
Sub. Sec. Gen.

The Officiating Chief Secretary
to Government

Revenue Department
with 1 Enclosure

Wm. Loper
C. J. Zimmerman

Nov-1669/72
Enclosure in form of
the Board of Revenue
to the M. S. Ch. of the
L. of the B. D. and
to the M. S. Ch. of the
L. of the B. D. and
to the M. S. Ch. of the
L. of the B. D. and

Copy of the Minutes
showing the Mineral
Rights reserved
in a pair of
P. S. Ch. of the
L. of the B. D. and

Revenue 1872. Oct 4.
#1669.

PROCEEDINGS OF THE BOARD
OF REVENUE.

Dated 6th Decr 1872.

Despatched 13 May-1872

Received 11th.

an 1.

SUBJECT.

Communication

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through

to Mr. Turner, through