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FOR THE SEASON BETWEEN

1905—1907.

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OF THE

IMPERIAL DEPARTMENT OF AGRICULTURE

FOR THE WEST INDIES.

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PART III.

EXPERIMENTS WITH VARIETIES OF SUGAR-CANE.

BY

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LETTER OF TRANSMITTAL.

The Hon'ble SIR DANIEL MORRIS, K.C.M.G.,
Imperial Commissioner of Agriculture.

Government Laboratory,
Barbados, February 10th, 1908.

Sir,

We have the honour to forward a report attached hereto upon the experiments with the seedling and other varieties of sugar cane for the season ended 1907 and forming Part III of a report on the Agricultural work carried on at Barbados under the direction of the Imperial Department of Agriculture.

2. The experiments were carried on at two central stations viz., Dodds Botanic Station, St. Philip, and Waterford Plantation, St. Michael, and at 12 plantations named in the report, situated in different typical localities of this island. We desire to record our thanks to the Proprietors, Attorneys and Managers of those plantations for their courtesy in allowing the use of their plantations and for their co-operation in the experiments.

3. A summary of the more important results of these experiments, sufficient for general readers and especially planters who desire information in regard to the varieties longest under trial, is given at the beginning of this report. For others who may desire to refer to details, the full tabulated results are given at the end of the report.

4. In carrying out this work, besides the members of the staff attached to the Department of Agriculture and named in the body of this report, material and valuable aid has been received from Mr. Radclyffe Hall, B.A., Assistant to the Professor of Chemistry, and Mr. E. Gillman, F.C.S., Chief Laboratory Assistant.

We have the honour to be,

Sir,

Your most obedient servants,

J. P. D'ALBUQUERQUE,
Island Professor of Chemistry
and Agricultural Science, and
Chemist-in-Charge of
Sugar Cane Experiments.

JOHN R. BOVELL,
Superintendent Botanic Station,
and Agricultural Superintendent
Sugar Cane Experiments.

The Commissioner of Agriculture for the West Indies.
To the Colonial Secretary, Barbados.

IMPERIAL DEPARTMENT OF AGRICULTURE,
B. 585 For the West Indies,
BARBADOS,
February 18th, 1908.

Sir,

I have the honour to forward, herewith, Part III of the report by Professor J. P. d'Albuquerque and Mr. J. R. Bovell upon the Agricultural Experiments conducted at Barbados, under the direction of the Imperial Department of Agriculture for the West Indies during the season 1905—7.

2. This part of the report deals with important experiments with seedling and other varieties of Sugar-cane.

3. The varieties of canes herein reported upon were cultivated during the season under review on fourteen estates situated in representative localities of the Island, and, as in former years, received such treatment as was customary upon the estates on which the canes were grown. Eleven of the stations were on black soils and three on red.

4. The results, as set forward in the summary at the beginning of this report, show that B. 3696 gave the best results on the 'selected variety' estates on black soils for the season under review giving a yield of 2,045lb. saccharose per acre in excess of that given by White Transparent, the standard cane. B. 208 came second, and B. 147 third, with increased yields of 1494lb. and 922lb. saccharose respectively over that of the standard variety. On the red soils, as plants and ratoons, B. 1566 is top of the list with 8,394lb. of saccharose per acre as plants, and 6645lb. as ratoons as against 6006lb. per acre from White Transparent as plant canes and 5736lb. as ratoons. This increase of yield represents a total gain of $47·73. Other canes worthy of notice are B. 3635, D. 95, B. 1753, B. 376 and B. 1529, on black soils and D. 95, B. 376 and B. 208 on red soils.

5. The tables, giving the average results obtained from the best varieties during the past four seasons indicate that B. 3696, B. 1753, B. 1529, B. 147 and B. 208 should receive attention at the haads of planters on black soils; and B. 3405, B. 3412, B. 3390, B. 1566, B. 208, B. 1529 and B. 376 should be given trial by all planters on red-soil estates.

6. In 1905—7 crop, some trials of seedling canes were made on different estates in the Island on plots of from ½ acre to 1 acre in extent. The results of such large experiment plots are set forward in Tables XLIX and L, and they show the increased yields obtained from various seedling canes over White Transparent, the standard cane.

7. Seedling canes to the number of 4,874 were planted in 1905, and of these 118 varieties have been selected for replanting at the close of 1907. At the end of 1906, only 219 seedlings were obtained, and these are now under experiment. Five canes produced by artificial hybridization are under experimental cultivation, and information is given of further efforts that are being made in this direction.

8. Reference to table XLVI, giving the mean results of varieties of canes grown on black soils and the average for 3 and 4 years arranged according to saccharose yield, shows that White Transparent came out ninetieth with 6,670lb. of saccharose, while the seven best varieties gave over 9,000lb. of saccharose per acre, and it is now generally recognised that these experiments are proving of great value to the sugar industry of this island. Every year, they are receiving more recognition from the planting community, and it is on record that on one estate in British Guiana, more profit has been derived from the cultivation of Barbados and British Guiana seedling canes than would cover the cost of the sugar-cane experiments at Barbados since they were inaugurated in 1884. At Barbados itself, on some few estates, no other canes are planted except seedlings; while on others, appreciable portions are under cultivation in seedlings of various varieties.

9. The thanks of the Department are due to the proprietors, attorneys and managers who have so heartily co-operated in the work of these experiments, which have been conducted with the greatest zeal by Messrs. d'Albuquerque and Bovell, and the other officers associated with them.

10. I would suggest that, when this report is printed, a copy of this letter might be attached to it for the information of the Right Honourable the Secretary-of-State for the Colonies.

I have the honour to be,
Sir,
Your most obedient servant,

D. MORRIS,
Commissioner of Agriculture,
for the West Indies.

The Honourable
The COLONIAL SECRETARY,
Barbados.

REPORT ON AGRICULTURAL EXPERIMENTS.

Conducted in Barbados in the season 1905—1907 under the direction of the Imperial Department of Agriculture for the West Indies.

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PART III.

EXPERIMENTS WITH SEEDLING AND OTHER VARIETIES OF CANES.

The following is a summary of the principal results obtained with the sugar-cane experiments carried out under the auspices of the Imperial Department of Agriculture for the West Indies.

It contains in some detail and carefully arranged the most important results that have been obtained during the season under review. In this branch of the work the object which is steadily kept in view is to obtain such varieties as will best suit the varying soil and climatic conditions existing in the different districts of the island.

To this end, during the last ten years,—the period during which the Imperial Department of Agriculture has been in existence—nearly 30,000 canes have been raised from seed and these 30,000 varieties have been studied, in order to select and afterwards propagate varieties that possess the most desirable agricultural and chemical characters. The means by which object is attained are briefly as follows :—

Seeds of the sugar-cane are sown in boxes towards the end of November or the beginning of December in each year. As soon as the plantlets are sufficiently advanced they are pricked out into pots, and when they are about 10 or 12 inches high they are planted, usually in the month of May, in a field arranged for irrigation, so that they may be grown to maturity by the May of the following year. In a year's time those varieties which from their field characters are considered good enough for reproduction are cut, weighed, and the juice analysed, but only the stools from the canes which contain fairly rich and pure juice are replanted. The stools of the canes are taken up, divided in half and planted where they can be irrigated; care is also taken to label each variety. At the same time a plan is made showing the position of each stool in the field. During the following December the canes from these stools are made into cuttings and replanted. From that time onwards each variety is annually propagated and multiplied in the usual manner, and grown in competition with the White Transparent, the cane usually planted on the sugar estates. If the results of the new canes, when grown under similar conditions as the standard cane, justify it, they are cultivated on the various experimental plots in the black and red soil districts, until they are either ultimately rejected or cuttings are supplied to the planters with the recommendation to try them on a small scale, and, if the results warrant it, to gradually increase the areas under cultivation.

These experiments were carried out at two central stations, viz., Dodds, St. Philip, and Waterford, St. Michael, and at twelve estates in typical parts of the island.

The following table gives a list of these estates, their height above the sea-level and the rainfall at each during the period of growth of the crop.

Variety Experiment Stations 1905—1907.

Name of Estate.	Name of Field.	Height above sea-level.	Rainfall from December 1905 to May 1907.
Dodds	House ... ... Pasture... ... ... Pilgrim ... ... Summervale ... ... Upper Bay Tree ... Upper Chapel ... ... Upper Padmore ... Well	210	76·53
Brighton	Long Pond ... ... Rabbit Pen	271	73·58
Clifton	Six Acre Parish ...	756	92·71
Clifton Hall ...	Clay Pit ... ... Goat ... ... Still Pond	702	79·18
Coverly	Mittee	254	71·85
Hampton	Lr. North Nat Valley	103	58·36
Hannays	Upper Cut Hill ... Water Mill	183	60·33
Henley	Golden ... ... N. W. Swamp	553	87·97
Husbands	Cottage	184	65·50
Lower Estate ...	Simmons Bottom ...	237	71·30
Pine	South 19 Acre	100	56·26
Ridge	Well	362	63·49
Sunbury	Below Yard	160	63·29
Waterford	Burnt ... ... Foaster ... ... No. 2 Tennant... ... Quarry	186	61·16

SEEDLING CHARACTERS.

The following are the most important field and factory characters, a consideration of which goes to determine the value of any variety of cane :—

Field Characters :—

1. Germinative power.
2. Behaviour under extremes of dryness and moisture.
3. Habit, that is, whether upright or recumbent.
4. Power of resisting the attacks of insects and fungi.
5. Period of growth.
6. Productive power in tons of canes.
7. Tonnage of tops.
8. Ratooning power.

Factory Characters :—

9. Milling quality, that is, whether the canes are tough are brittle.
10. Fuel-producing property, depending upon the percentage of fibre.
11. The relative percentage of expressible juice, determining the 'dryness' or 'juiciness' of the canes.
12. The richness of the juice.
13. The purity of the juice.

The seedling cane experiments in Barbados are divided into a number of stages. In the first stage the varieties are raised from seed and subjected to a preliminary field selection with the object of eliminating from further cultivation all but those that possess field characters more favourable than the average.

In subsequent stages these varieties are replanted and each variety is crushed and the juice analysed.

These stages combine both agricultural and chemical selection, and their object is to eliminate all varieties except those possessing both favourable field characters and juice sufficiently rich and pure, from the point of view of the

manufacturer, to justify further cultivation. In a later stage, the " select variety " stage, a few of the best varieties of preceding stages together with the White Transparent variety are cultivated in duplicate plots of 100 stools in each of the typical localities of the island. These experiments are carried out on sugar plantations, and in all respects the cultivation is that of the plantation itself.

At this stage therefore, the experiments, so far as the small scale will allow, come under ordinary agricultural conditions, and afford data enabling the planter to determine the varieties that give results in his district sufficiently favourably to justify tentative cultivation on a small estate scale.

During the year under review 4,874 varieties were raised from seed and planted out making a total of 32,809 varieties of cane raised from seed since 1898. Of this number 6,270 varieties reached a second or third stage, and during the year under review a total of 5,297 varieties were under cultivation and 934 varieties were reaped and analysed.

The tables III to XXXII giving the full results of all these experiments are placed at the end of this report for review by those who require details of the work.

The following tables will afford a summary of the results for the general reader.

THE SELECTED VARIETIES ARRANGED IN ORDER OF YIELD, TO SHOW THE RELATIVE POSITION AND PURITY OF JUICE OF CERTAIN CANES IN DIFFERENT SOILS AND ALSO WHEN GROWN AS PLANTS AND RATOONS.

1907.

Variety.	Yield of Saccharose in lb. per acre.			*Purity of Juice.
	Plants.	Ratoons.	Average.	
Black Soils.				
B. 3,696	8,916	...	...	high
B. 208	8,365	2,416	5,391	high
B. 147	7,793	...	...	fair
B. 3,635	7,455	...	...	high
D. 95	7,315	2,965	5,140	high
B. 1,753	7,274	...	...	fair
B. 376	7,123	2,686	4,905	high
B. 1,529	7,090	...	...	high
White Transparent	6,871	2,978	4,925	high
Red Soils.				
B. 3,405	10,792	...	...	fair
B. 3,412	9,589	...	...	fair
B. 3,390	9,536	...	...	fair
B. 1,753	8,674	...	...	fair
B. 1,566	8,394	6,645	7,520	high
B. 3,696	7,194	...	...	fair
B. 1,529	6,864	2,449	4,657	high
B. 376	6,423	6,586	6,505	high
B. 208	6,410	5,660	6,035	high
D. 95	6,266	7,591	6,929	high
White Transparent	6,006	5,736	5,871	high

*Juices are classified as follows :—Quotient of Purity above 90 high
" " " 90——85 fair
" " " below 85 low.

1900—7.

Variety.	Yield of Saccharose in lb. per acre.			*Purity of Juice.
	Plants.	Ratoons.	Average.	
Black Soils.				
B. 3,696	9,054	...	...	high
B. 3,635	7,888	...	...	high
B. 1,753	7,526	...	...	fair
B. 208	7,171	3,585	5,378	high
B. 147	7,082	...	...	fair
B. 376	6,606	3,418	5,012	high
White Transparent	6,586	3,461	5,024	fair
D. 95	6,412	3,736	5,074	high
Red Soils.				
B. 3,405	10,208	...	..	fair
B. 3,412	9,975	...	...	fair
B. 3,390	9,569	...	...	fair
B. 1,566	8,812	6,094	7,453	high
B. 1,529	7,356	...	...	high
B. 208	6,718	4,981	5,850	high
B. 376	6,574	6,280	6,427	fair
D. 95	6,225	6,307	6,266	high
White Transparent	5,604	5,277	5,441	high

*Juices are classified as fell6ws :—Quotient of Purity above 90, high
" " " 90——85, fair
" " " below 85, low.

THE SELECTED VARIETIES ARRANGED IN ORDER OF FREEDOM FROM ROTTEN CANES.

Freedom from Rotten Canes.			Germinative Power.
B. 3,635 ...	·87	less than average number.	Good
B. 1,753 ...	2·42		Very good
B. 3,696 ...	2·59		Good
B. 1,529 ...	3·36		Fair
B. 147 ...	3·82		Fair
D. 95 ...	4·68		Good
B. 3,405 ...	5·14	*average number.	Good
B. 3,390 ...	5·32		Good
B. 1,566 ...	6·58	greater than average number.	Fair
W. Transparent ...	6.73		Good
B. 208 ...	8·38		Good
B. 3,412 ...	8·77		Good
B. 376 ...	10·16		Good

*Average number per cent. = 5·26.

WEATHER.

The rainfall in December 1905 and January 1906 was on the whole below the average. The cane cuttings, however, that were planted at an early time grew fairly regularly, but those that were planted at the close of the year did not germinate so well, and as the usual dry season, i.e., from February to the end of May was also below the average, a regular stand was not obtained as early as usual. The rainy season commenced in June and the rainfall conditions being favourable, the canes made considerable progress until the end of November,

when a drought set in which continued until the end of the reaping season; the result being that the canes were somewhat dry and the yield in many instances below the average. This was especially noticeable with the ratoons, the growth of which was much retarded by the sugar-cane root disease, *Marasmius Sacchari*.

OBSERVATIONS ON SOME OF THE VARIETIES CULTIVATED, GIVING THEIR MORE GENERAL FIELD CHARACTERS WITH THE MORE IMPORTANT AGRICULTURAL AND CHEMICAL RESULTS FOR THE CROP.

In black soils as plant canes per acre on the average for the past four years :—

	Saccharose lb. per acre.	Muscovado sugar lb. per acre.	Increase in value per acre compared with White Transparent.
White Transparent	6,670	5,336	
B. 376	6,820	5,448	$ 2·03
B. 208	7,328	5,862	9·52
B. 147	7,474	5,979	11·64
B. 1529	7,787	6,230	16·18
B. 1753	8,860	7,088	31·71
B. 3696	9,054	7,243	34·52

In black soils the average yields of plants and ratoons taken together, were per acre per annum :—

	Saccharose	Muscovado Sugar
White Transparent	5,197	4,158
B. 208	5,542	4,434

In this case, we only show an average increase of 276 lb. muscovado sugar which with its molasses would be worth say $5·00. But here we are dealing with what is generally considered a non-ratooning district of the island, and the difference between one variety and another is much diminished. In red soils the results are more striking. The average yields per acre for plant canes for the four years 1904–1907 were as follows :—

	Saccharose lb. per acre	Muscovado sugar lb. per acre	Increase in value per acre compared with White Transparent.
White Transparent ...	6,125	4,900	
D. 95	6,732	5,386	$ 8·80
B. 376	7,252	5,802	16·33
B. 1529	7,356	5,885	17·83
B. 208	7,703	6,162	22·84
B. 1,566	8,812	7,050	38·91
B. 3,390	9,569	7,655	49·87
B. 3,412	9,975	7,980	55·75
B. 3,405	10,208	8,166	59·11

If the average results for plants and ratoons on the red soils are now considered together for the same period, the yields per acre per annum are as follows :—

	Saccharose lb. per acre	Muscovado sugar lb. per acre	Increase in value per acre compared with White Transparent.
White Transparent ...	6,016	4,813	
B. 208	6,577	5,262	$ 8·13
B. 95	6,748	5,398	10·59
B. 376	6,766	5,413	10·84

It should in fairness be stated that the higher number seedlings, B. 3,390, B. 3,412 and B. 3,405, have only been in cultivation as select seedlings on plantations for four years and in few plots, whereas the other seedlings and the White Transparent have been cultivated over the whole period and in many plots. On the average during the past four years (vide Table XLV) White Transparent came out ninetieth with 6,670 lb. of saccharose, while there are seven varieties that have been cultivated during the same period that have given over 9,000 lb. saccharose per acre, the increases being worth $33·79 and upwards per acre more than the White Transparent. The following results are taken from that table :—

Name or No. of Cane.	Number of years under experiment.	Number of experiments.	Saccharose lb. per acre.	Increase in value per acre compared with White Transparent.
White Transparent ...	4	84	6,670	
B. 208 ...	4	55	7,342	$ 9·74
B. 147 ...	4	17	7,474	11·64
B. 1,753 ...	4	16	8,872	31·89
B. 6,308 ...	3	3	8,982	33·48
B. 6,450 ...	3	3	9,004	33·79
B. 3,922 ...	3	3	9,224	36·98
B. 6,346 ...	3	3	9,270	37·65
B. 3,696 ...	4	11	9,353	38·84
B. 3,747 ...	3	3	9,503	41·01
B. 3,675 ...	3	3	9,679	43·57
B. 6,204 ...	3	3	10,120	49·96

In the red soils, taking plants and first ratoons together for three years, we find the following :—

Name or No. of Cane.	Saccharose lb. per acre.		Plants and Ratoons.	Total increase in value compared with White Transparent.
	Plants.	Ratoons.	Total.	
White Transparent	5,916	6,032	11,948	
B. 208	7,263	5,490	12,753	$ 11·66
B. 376	7,018	6,167	13,185	17·92
D. 95	6,802	6,771	13,573	23·53
B. 1,566	9,168	5,674	14,842	41·92
B. 3,390	9,548	6,954	16,502	65·96
B. 3,405	10,509	6,075	16,584	67·13
B. 3,412	10,650	6,799	17,449	79·66

Coming now to the results for the present year, in black soils as plant canes :—

	Saccharose lb. per acre.	Muscovado sugar lb. per acre.	Increase in value per acre compared with White Transparent.
White Transparent ...	6,871	5,497	
B. 1,529	7,090	5,672	$ 3·17
B. 376	7,123	5,698	3·64
B. 1,753	7,274	5,819	5·83
D. 95	7,315	5,852	6·43
B. 3,635	7,455	5,964	8·45
B. 147	7,793	6,234	13·34
B. 208	8,365	6,692	21·63
B. 3,696	8,916	7,132	29·61

In the red soils, plants and ratoons, the following results for the present year are worthy of notice :—

Name or No of Cane.	Saccharose lb. per acre.		Plants and Ratoons.	Total increase in value compared with White Transparent.
	Plants.	Ratoons.	Total.	
B. 1,529	6,864	2,449	9,313	
White Transparent	6,006	5,736	11,742	
B. 208	6,410	5,660	12,070	$ 4·74
B. 376	6,423	6,586	13,009	18·3[illegible]
D. 95	6,266	7,591	13,857	30·63
B. 1,566	8,394	6,645	15,039	47·73

A LIST OF THE SELECTED VARIETIES FOR 1907, GIVING SOME ACCOUNT OF THEIR MORE IMPORTANT CHARACTERISTICS.

WHITE TRANSPARENT CANE.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants, (mean of 22 plots) ...	26·55	6,871	9
Black soils, 1st ratoons, (mean of 4 plots) ...	12·60	2,978	1
Red soils, plants, (mean of 6 plots) ..	22·89	5,604	11
Red soils, 1st ratoons, (mean of 2 plots) ...	22·92	5,736	4

This variety, as well be seen from the above figures, came well down the list of selected varieties in point of saccharose yield. As ratoons it did better than the other three varieties grown on black soil estates. It may as in previous years be taken as a satisfactory standard with which to compare newer varieties of cane.

Experimental samples of juice—average of 34 samples.

Saccharose lb. per gallon—highest 2·381, lowest 1·963, mean 2·148.
Quotient of Purity—highest 94·79 lowest 85·50, mean 91·29.
Glucose Ratio—highest 6·02 lowest 1·16, mean 2·79.

Estate samples of juice—results of 35 samples.

Saccharose lb. per gallon highest 2·038, lowest 1·643, mean 1·911.
Quotient of Purity highest 92·93, lowest 79·40, mean 89·10.
Glucose Ratio highest 7·38, lowest 2·32, mean 4·07.

B. 147.

A delicate, slow growing cane when young and one which does not germinate freely when planted late in the season; from eleven to twelve canes to the clump; of a bright yellow colour, with long cylindrical inter nodes of about 4 to 8 inches long, having a slight longitudinal channel on the side to which the bud is attached; very rarely arrows; there is a tendency for the sheaths of the dried leaves to remain attached to the lower half of the cane until the close of the year, and for this reason the sleeping roots of the nodes begin to start into life; these, however, dry on being exposed, as the leaves fall.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants (mean of 4 plots) ...	31·78	7,793	3

This variety was grown on black soils as plant canes only and compared very favourably with the White Transparent in point of saccharose yield.

Experimental samples of juice—results of 4 samples.

Saccharose lb. per gallon—highest 2·161, lowest 1·886, mean 2·036.
Qnotient of Purity—highest 91·18, lowest 87·96, mean 89·61.
Glucose Ratio—highest 5·30, lowest 1·49, mean 3·67.

Estate samples of juice—results of 12 samples.

Saccharose lb. per gallon—highest 2·019, lowest 1·646, mean 1·900.
Quotient of Purity—highest 91·56, lowest 77·10, mean 88·22.
Glucose Ratio—highest 7·23, lowest 3·25, mean 4·42.

B. 208.

Germinates readily; from 10 to 15 canes per clump; internodes from 3 to 5 inches long, somewhat cylindrical; colour greenish yellow; habit upright; average number of arrows; the dry leaves have a tendency to adhere.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants, (mean of 14 plots) ...	29·73	8,365	2
Black soils, ratoons, (mean of 3 plots) ...	9·19	2,416	4
Red soils, plants, (mean of 6 plots) ...	23·00	6,410	9
Red soils, ratoons (mean of 2 plots) ...	19·90	5,660	5

This cane gave the best results when grown as plant canes in black soils. The ratoons were not very successful this year.

Experimental samples of juice—results of 25 plots.

Saccharose lb. per gallon—highest 2·479, lowest 2·132, mean 2·319.
Quotient of Purity—highest 95·87, lowest 89·50, mean 92·73.
Glucose Ratio—highest 3·89, lowest 1·04, mean 2·13.

Estate samples of juice – results obtained from 14 samples.

Saccharose lb. per gallon—highest 2·339, lowest 1·821, mean 2·078.
Quotient of Purity—highest 93·47, lowest 82·18 mean 89·32.
Glucose Ratio—highest 5·69, lowest 1·39, mean 3·35.

B. 376.

Of fairly good germinating power; from 8 to 10 canes to the clump; internodes from 3 to 5 inches long; of medium size; somewhat tumid; colour variable like the White Transparent cane, which it much resembles in habit, in that, while under certain conditions it is somewhat trailing, under others it is upright; average number of arrows; drops its leaves readily.

	Canes	Saccharose	Comparative order. by Saccharose yield.
Black soils, plants, (mean of 6 samples) ...	28·99	7,123	7
Black soils, ratoons, (mean of 3 samples)	11·87	2,686	3
Red soils, plants (mean of 4 samples) ...	26·74	6,423	8
Red soils, ratoons, (mean of 2 samples) ...	25·74	6,586	3

This cane on black soil estates as plants gave 250 lbs. saccharose more to the acre than the White Transparent. On red soils as plants it gave 800 lbs. saccharose more to the acre and as ratoons 850 lbs. saccharose more to the acre than the White Transparent making a total increase in plants and ratoons of 1,650 lbs. over the standard variety.

Experimental samples of juice—average results obtained from 15 samples.

Saccharose lb. per gallon—highest 2·346, lowest 1·772, mean 2·075.
Quotient of Purity—highest 94·46, lowest 85·95, mean 91·65.
Glucose Ratio—highest 6·32, lowest ·60, mean 2·55.

Estate samples of juice—results obtained from 8 samples.

Saccharose lb. per gallon—highest 2·200, lowest 1·750, mean 1·901.
Quotient of Purity—highest 92·36, lowest 84·79, mean 88·97.
Glucose Ratio—highest 7·99, lowest 2·41, mean 4·33.

B. 1,529.

Germinating power somewhat under the average; 15 to 22 small canes to the clump; internodes, from 2 to 6 inches long, variable, some being cylindrical and others tumid; colour red; habit upright; does not arrow readily; leaves somewhat adherent.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants, (mean of 10 plots) ...	24·43	7,090	8
Red soils, plants, (mean of 4 plots) ...	23·17	6,864	7
Red soils, ratoons, (mean of 2 plots) ...	8·73	2,449	6

This cane gave, as plants in the black soils, 200 lbs. more saccharose than the White Transparent.

In the red soils as plant canes it gave 1,200 lbs. saccharose more than the standard variety, but as ratoons in the red soils it appears to have suffered badly from disease, which lowered the yield of canes to a great extent.

Experimental samples of juice—results of 16 plots.

Saccharose lb. per gallon—highest 2·560, lowest 2·236, mean 2·445.
Quotient of Purity—highest 97·26, lowest 90·71, mean 93·20.
Glucose Ratio—highest 3·68, lowest ·47, mean 1·68.

B. 1,566.

Germinating power fairly good; 7 to 12 large canes to a clump; internodes, 2 to 6 inches long, cylindrical or slightly tumid; colour yellow; habit recumbent, flowers freely; dry leaves have a tendency to adhere; eyes large.

	Canes	Saccharose	Comparative order by saccharose yield.
Red soils, plants, (mean of 6 plots) ...	32·69	83·94	5
Red soils, 1st ratoons, (mean of 2 plots) ...	27·44	66·45	2

This cane again did well on red soils, both as plants and ratoons; as plants it gave an average yield of 1,800 lbs. saccharose more to the acre and as first ratoons 900 lbs. more to the acre than the standard variety, giving in all a total increased yield of 2,700 lbs. saccharose to the acre.

Experimental samples of juice—results of 8 plots.

Saccharose lb. per gallon—highest 2·317, lowest 2·041, mean 2·178.
Quotient of Purity—highest 94·92, lowest 90·63, mean 93·43.
Glucose Ratio—highest 2·79, lowest ·60, mean 1·73.

B. 1,753.

Germinating power very good; 15 to 25 canes to a clump; internodes, 3 to 6 inches long, cylindrical or very slightly constricted; colour yellow; habit upright; very rarely flowers; leaves fall readily; eyes small.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants, (mean of 14 plots) ...	32·57	7,274	6
Red soils, plants, (mean of 5 plots) ...	39·09	8,674	4

This cane was only grown as plants this year. It held its high place in order of saccharose yield, owing to its great tonnage. Its juice is of fair richness but is less pure than that of the White Transparent. The results of this year's reaping point out that it has a high Glucose Ratio.

Experimental samples of juice—results of 19 plots.

Saccharose lb. per gallon—highest 2·057, lowest 1·772, mean 1·925.
Quotient of Purity—highest 90·75, lowest 83·14, mean 87·00.
Glucose Ratio—highest 8·74, lowest 2·75, mean 4·98.

Estate sample of juice.

Saccharose lb. per gallon—1·805
Quotient of Purity—87·41.
Glucose Ratio—4·93.

B. 3,405.

Germinating power good; 16 to 20 canes to a clump; internodes, 3 to 6 inches long, slightly tumid; colour greenish yellow; habit upright; few flowers; dry leaves fall readily; eyes prominent and easily broken off.

	Canes	Saccharose	Comparative order by saccharose yield.
Red soils plants, (mean of 4 plots) ...	44·52	10,792	1

This cane gave a calculated yield on red soils of 5,000 lbs. saccharose more per acre than the White Transparent. Its juice is fairly rich and its tonnage very high.

Experimental samples of juice—results of 4 plots.

Saccharose lb. per gallon—highest 2·096, lowest 1·756, mean 1·960.
Quotient of Purity—highest 89·78, lowest 86·97, mean 88·47.
Glucose Ratio—highest 5·69, lowest 4·10, mean 4·77.

B. 3,412.

Germinating power good; 15 to 20 canes in a clump; internodes, 2 to 6 inches long, cylindrical in shape; colour greenish yellow; habit upright; few flowers; dry leaves fall readily; eyes large.

	Canes	Saccharose	Comparative order by saccharose yield.
Red soils, plants (mean of 4 plots) ...	42·08	9,589	2

This cane was only grown in the red soils. It gave a calculated yield of 4,000 lbs. saccharose more per acre than the White Transparent.

Experimental samples of juice—results of 4 plots.

Saccharose lb. per gallon—highest 1·996, lowest 1·824, mean 1·915.
Quotient of Purity—highest 89·85, lowest 87·74, mean 88·39.
Glucose Ratio—highest 5·46, lowest 4·88, mean 5·14.

B. 3,390.

Germinating power good; 15 to 21 canes to a clump; internodes, 2 to 7 inches long, cylindrical in shape; colour greenish yellow; habit upright; few flowers; dry leaves fall readily; eyes medium size.

	Canes	Saccharose	Comparative order. by saccharose yield.
Red soils, plants, (mean of 4 plots) ...	40·16	9,536	3

This cane, owing to its very high tonnage, together with its fair juice richness, has given a calculated yield of 4,000 lbs. saccharose more per acre than the standard variety when grown on red soils.

Experimental samples of juice—results of 4 plots.

Saccharose lb. per gallon—highest 2·090, lowest 1·928, mean 2·008.
Quotient of Purity—highest 91·39, lowest 87·92, mean 89·63.
Glucose Ratio—highest 5·19, lowest 2·53, mean 3·74.

B. 3,635.

Germinating power good; 10 to 18 large sized cane to a clump, somewhat of B. 208 type; internodes, 2 to 5 inches long, slightly tumid; colour dark yellow, which changes to a dull red on exposure to sunlight; habit upright; flowers few; dry leaves somewhat adherent; eyes prominent.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils, plants (mean of 5 plots.) ...	26·52	7,455	4

This cane, grown on black soils as plants, gave 600 lbs. saccharose more to the acre than the standard variety.

Experimental samples of juice—results of 5 plots

Saccharose lb. per gallon—highest 2·414, lowest 2·158, mean 2·257.
Quotient of Purity—highest 94·29, lowest 90·95, mean 92·52.
Glucose Ratio—highest 3·03, lowest 1·53, mean 2·16.

B. 3,696.

Germinating power good; 15 to 21 canes to a clump; internodes, from 3 to 8 inches long, cylindrical in shape; colour yellow; habit upright; arrows freely; dry leaves fall readily; eyes full.

	Canes	Saccharose	Comparative order by saccharose yield.
Red soils, plants, (mean of 5 plots) ...	33·25	8,916	1
Red soils, plants, (mean of 2 plots) ...	30·04	7,194	6

The juice of this cane is not richer than that of the standard variety, but the high average tonnage brings the cane to the top on the black soils in point of total yield of saccharose per acre.

Experimental samples of juice—results of 7 plots.

Saccharose lb. per gallon—highest 2·271, lowest 1·821, mean 2·025.
Quotient of Purity—highest 92·13, lowest 88·18, mean 90·55.
Glucose Ratio, highest 5·71, lowest 2·29, mean 3·83.

D. 95.

Germinates readily; from twelve to fifteen canes to the clump; internodes, from 2 to 6 inches long, somewhat tumid; colour dark red; habit upright; arrows freely; dry leaves have a tendency to adhere; eyes large and prominent and liable to be broken off.

	Canes	Saccharose	Comparative order by saccharose yield.
Black soils plants, (mean of 3 plots) ...	25·39	7,315	5
Black soils, 1st ratoons, (mean of 3 plots) ...	11·87	2,965	2
Red soils plants, (mean of 3 plots) ...	23·76	6,266	10
Red soils, 1st ratoons, (mean of 2 plots) ...	28·29	7,591	1

This cane did well as plants in the black soils and as ratoons in the red.

It will be noticed that the ratoons from the red soils gave the highest average results per acre.

Experimental samples of juice—results of 11 plots.

Saccharose lb. per gallon—highest 2·469, lowest 2·158, mean 2·291.
Quotient of Purity—highest 94·94, lowest 91·05, mean 93·57.
Glucose Ratio—highest 2·32, lowest ·45, mean 1·26.

NEW SEEDLINGS.

Of the 4,874 seedling canes which were planted in 1905, 126 from their field characters and the richness and purity of their juice passed the standard and were replanted. From these, 118 varieties were obtained and they will be replanted at the close of 1907.

At the end of 1906, owing to the unfavourable weather conditions, only 219 seedlings were obtained. These were transplanted in due course and will be tested during the reaping season of 1908, and all the stools of the best varieties will be replanted.

It has been mentioned in previous reports that artificial hybridization had been successfully performed. From the canes so obtained, the following varieties are under experimental cultivation at present, viz.:—B. 11,629, B. 11,660, B. 11,692, B. 11,724 and B. 11,756.

In addition, the following six varieties obtained from arrows bagged to prevent cross-fertilization, are being grown, viz.:—B. 11,360, B. 11,385, B. 11,482, B. 11,788, B. 11,820, and B. 11,852.

None of these, however, we regret to state, show any indication of giving better results than some of the newer seedlings at present under cultivation.

In 1902, a number of the seedling canes B. 208 and D. 95 were planted in alternate rows and in alternate holes in the rows, i.e., chess-board fashion, in such a position that they would not be likely to be cross-fertilized by canes of other varieties.

From these canes were obtained 196 seedlings. From their field characters and saccharose content, fourteen have been thought worthy of further trial. Of these fourteen, five resemble the D. 95, four resemble the B. 208, four partake of the nature of both canes, and one resembles neither.

These canes were tested this season, but three only of the fourteen gave better results than the White Transparent grown in the same field. The following shows the position in which they stand:—

	Sacharose lb. per acre.
White Transparent	5,819
B. 8,528	5,905
B. 8,565	6,158
B. 8,520	7,189.

In December 1906, Mr. F. A. Stockdale, B. A., F. L. S., assisted by Mr. C. T. Murphy, cross-fertilized 1,050 flowers of different varieties, and at the same time one infloresence of the White Transparent and two of B. 3,289 were bagged before the extrusion of the stigmata. In the case of the White Transparent an infloresence of B. 6,048 was inserted for the purpose of cross-fertilization. In the case of one of the B. 3,289 the infloresence inserted was B. 3,696 and in the other B. 6,048. We regret to say, however, owing to the unfavourable weather conditions which existed at the time the operations were carried on, no seedling was obtained.

EXPLANATION OF TERMS USED IN THIS REPORT.

Per cent. by number of rotten canes, is the number of rotten canes in 100 canes (good and rotten).

Sp. Gr. $\frac{30^\circ C.}{16{\cdot}6^\circ C.}$ is the weight of a given volume of juice at a temperature of 30° Centrigade divided by the weight of an equal volume of water at a temperature of 16·6° Centigrade. A gallon of water at 16·6° C. (i.e. 62° Fahrenheit) weighs 10 lbs.; the Sp. Gr. $\frac{30^\circ C.}{16{\cdot}6^\circ C.}$ therefore serves to ascertain the volume of the juice from its weight, or vice versa.

Per cent. of juice by mill, is the number of pounds of juice expressed from 100 pounds of cane.

Quotient of Purity, is the number of pounds of saccharose (cane sugar) in 100 pounds of the total solids in the cane juice.

Glucose Ratio, is the number of pounds of glucose to every 100 pounds of saccharose in the juice.

Saccharose is the chemical name used for pure cane sugar. It is the same as sucrose. Refined cane sugar is almost pure saccharose containing, when deprived of traces of moisture, nearly 100 per cent. of saccharose.

TABLE I.

RAINFALL AT VARIETY EXPERIMENT STATIONS FROM DECEMBER 1905 TO MAY 1907.

MONTHS.	Dodds.		Brighton.		Coverly.		Hampton.		Hannays.		Husbands.		Lower Estate.		Pine.		Ridge.		Waterford.		Clifton Hall.		Henley.		Sunbury.		Clifton.	
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
December 1905 ...	14	2·28	14	2·32	10	1·77	13	2·42	4	2·00	12	2·26	8	1·84	5	1·45	7	1·91	14	1·56	8	2·71	14	3·08	11	2·15	11	3·01
January 1906 ...	16	1·64	15	1·79	14	1·66	14	1·52	4	·55	10	1·31	9	1·30	4	·76	12	·98	13	1·05	4	1·26	18	1·74	16	1·80	17	2·26
February " ...	14	1·29	10	1·23	8	·93	11	1·21	6	1·08	9	1·24	9	1·05	5	·50	6	·78	12	·71	9	1·23	16	1·72	8	1·17	18	1·98
March " ..	11	·90	11	·78	9	1·76	9	·91	5	1·11	9	1·25	6	·62	2	·29	6	·72	7	·24	6	·94	14	1·21	6	·87	15	1·34
April " ...	6	·89	5	1·75	5	1·12	4	1·11	2	1·10	4	1·18	5	1·45	2	·89	4	1·08	3	1·11	6	1·84	8	1·99	5	·84	13	3·16
May " ...	12	1·30	11	1·54	8	·77	9	1·17	4	·85	8	·98	7	1·12	4	·70	8	1·02	11	·83	5	·89	14	1·70	6	1·15	15	2·07
June " ...	25	11·26	19	10·05	17	9·72	21	8·90	16	9·78	18	10·86	18	9·92	15	6·51	16	9·00	19	7·72	16	10·49	20	12·70	18	9·94	23	12·71
July " ...	24	5·88	24	6·64	20	6·64	18	4·67	12	5·14	12	7·64	18	6·40	11	7·66	14	5·71	17	6·28	16	7·65	23	7·84	15	4·20	27	8·64
August " ...	19	5·99	20	7·77	18	8·93	18	3·76	12	6·00	15	7·25	16	9·55	9	7·15	13	7·12	15	8·43	...	6·01	22	8·27	16	4·27	18	9·06
September " ...	20	11·27	19	8·44	15	8·29	13	7·12	11	6·46	10	6·66	17	8·97	10	6·22	12	6·58	14	5·58	...	13·01	18	10·46	12	8·72	19	9·93
October " ...	20	10·24	20	9·30	17	10·52	18	7·89	12	7·78	13	6·71	17	9·48	11	7·67	18	10·17	20	8·06	...	11·04	18	11·94	16	8·20	20	11·69
November " ...	22	9·41	20	9·37	17	7·41	21	7·13	15	8·06	17	5·10	17	6·66	13	7·13	13	6·90	17	7·68	...	7·53	17	9·16	16	7·77	20	8·37
December " ...	15	4·49	15	3·73	11	3·58	8	3·99	8	4·12	12	7·02	11	3·97	7	3·17	7	3·93	14	4·94	...	4·47	12	6·32	9	4·61	20	6·01
January 1907 ...	13	1·93	15	1·55	10	1·90	12	2·06	6	2·17	7	1·09	15	2·48	7	1·21	7	1·55	13	1·65	...	1·58	11	1·54	11	1·99	22	2·98
February " ...	14	2·97	15	2·36	12	3·20	10	2·01	7	1·88	8	2·25	11	2·28	6	1·87	12	2·43	9	1·69	...	3·44	10	3·96	10	2·47	17	3·35
March " ...	7	1·60	8	1·76	5	·92	6	·72	3	·80	6	·37	6	1·11	5	·68	6	·81	6	1·12	...	1·09	7	1·03	6	1·18	9	1·88
April " ...	9	1·74	8	1·21	5	·79	7	·99	3	·47	12	1·35	7	·75	3	·57	6	·87	7	·49	...	1·92	10	1·67	8	·95	11	1·59
May " ...	9	1·45	11	1·99	8	1·94	6	·86	4	·98	7	·98	7	2·35	4	1·83	8	1·93	5	2·02	...	2·08	6	1·64	5	1·01	11	2·68
	270	76·53	260	73·58	209	71·85	218	58·36	134	60·33	189	65·50	204	71·30	123	56·26	175	63·49	216	61·16	70	79·18	258	87·97	194	63·29	306	92·71

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TABLE II. DODDS.—HOUSE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Lb. per gallon. Glucose.	Lb. per gallon. Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	18,698	25·33	5·34	6·40	62·50	1·0835	2·022	·100	·153	88·88	4·95	3,273	6,618
B. 208	21,660	38·60	5·96	6·98	63·59	1·0920	2·284	·074	·143	91·32	3·24	5,035	11,500
B. 3701	27,292	33·03	5·44	2·08	61·00	1·0826	1·970	·109	·173	87·48	5·53	4,169	8,213
B. 3735	20,556	30·80	5·06	1·39	61·50	1·0942	2·398	·030	·132	93·67	1·25	3,877	9,297
B. 4507	20,208	26·96	5·18	4·40	59·50	1·0866	2·138	·078	·142	90·67	3·65	3,307	7,070
B. 4769	12,426	23·59	2·83	7·76	63·50	1·0765	1·785	·125	·178	85·49	7·00	3,117	5,564
B. 4844	17,362	33·68	5·31	2·61	67·50	1·0712	1·578	·208	·164	80·92	13·18	4,753	7,500
B. 4927	16,317	27·04	4·80	4·10	64·00	1·0773	1·753	·114	·245	83·00	6·50	3,598	6,307
B. 4934	18,930	36·22	6·33	·91	62·50	1·0857	2·138	·042	·154	91·60	1·96	4,670	9,984
B. 5062	18,059	24·26	7·03	6·61	64·50	1·0800	1·805	·147	·230	82·72	8·14	3,246	5,859
B. 5066	18,350	24·16	5·99	1·56	64·25	1·0804	1·840	·179	·174	83·90	9·73	3,219	5,923
B. 5068	16,433	21·13	4·02	1·74	65·25	1·0769	1·733	·179	·188	82·52	10·33	2,868	4,970
B. 5076	19,743	20·04	3·29	6·59	59·00	1·0848	2·048	·081	·182	88·62	3·96	2,441	4,999
B. 5102	22,937	21·10	4·46	4·13	64·25	1·0769	1·814	·114	·172	86·38	6·28	2,831	5,135
B. 5110	18,292	19·03	3·40	8·16	62·50	1·0809	1·844	·147	·214	83·63	7·97	2,465	4,545
B. 5135	16,201	34·95	7·60	·36	63·25	1·0791	1·853	·139	·166	85·87	7·50	4,588	8,502
B. 5204	20,034	31·37	6·22	17·46	62·25	1·0929	2·368	·045	·111	93·82	1·90	4,002	9,477
B. 5226	19,627	28·67	5·76	...	58·50	1·0875	2·190	·045	·147	91·94	2·05	3,455	7,566
B. 5353	22,298	31·08	5·31	1·03	68·50	1·0839	2·070	·068	·149	90·51	3·29	4,400	9,108

TABLE II.—*Concluded.* DODDS.—HOUSE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in Tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 5758	23,169	28·83	6·14	·99	60·50	1·0870	2·206	·053	·111	93·08	2·40	3,594	7,928
B. 6048	19,960	32·66	5·67	9·54	66·00	1·0738	1·656	·125	·238	82·02	7·55	4,498	7.449
B. 6138	24,215	39·95	4·51	4·14	60·00	1·0729	1·704	·119	·172	85·41	6·98	5,004	8,527
B. 6171	19,453	38·89	5·81	5·37	65·75	1·0787	1·931	·044	·172	89·94	2·28	5,309	10,252
B. 6183	20,150	36·60	4·93	4·41	63·50	1·0773	1·876	·048	·188	88·83	2·56	4,833	9,067
B. 6204	20,963	40·91	7·78	·55	67·88	1·0791	1·934	·068	·156	89·62	3·52	5,764	11,148
B. 6218	15,678	22·04	2·02	27·03	64·58	1·0804	1·805	·179	·209	82·31	9·92	2,950	5,325
B. 6230	21,195	35·36	6·48	...	62·94	1·0848	2·022	·132	·157	87·49	6·53	4,596	9,293
B. 6240	18,146	22·35	3·24	18·83	63·27	1·0902	2·226	·086	·141	90·74	3·86	2,907	6,471
B. 6259	20,672	36·29	4·67	2·47	63·07	1·0822	1·837	·147	·256	82·01	8·00	4,738	8,704
B. 6265	21,834	30·28	5·06	8·07	64·00	1·0822	1·905	·147	·188	85·04	7·72	4,011	7,641
B. 6273	18,117	26·57	2·90	5·74	62·42	1·0760	1·772	·119	·186	85·32	6·72	3,453	6,119
B. 6274	22,415	33·03	6·51	4·22	59·90	1·0813	1·980	·051	·186	89·31	2·58	4,098	8,114
B. 6280	18,414	33·66	5·42	1·00	63·02	1·0789	2·151	·096	·146	89·89	4·46	4,368	9,396
B. 6341	17,944	31·96	5·08	·96	62·37	1·0822	2·028	·060	·152	90·54	2·96	4,126	8,368
B. 6344	19,453	29·37	6·25	1·18	61·50	1·0769	1·931	·049	·120	91·95	2·54	3,757	7,255
B. 6346	20,092	36·32	5·57	1·70	60·88	1·0879	2·203	·046	·144	92·06	2·09	4,553	10,030

TABLE III. DODDS.—PASTURE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
White Transparent	18,292	32·51	4·12	2·17	54·00	1·0897	2·190	·089	·162	89·72	4·06	3,609	7,904
B. 208	23,228	37·88	4·98	·99	56·50	1·0956	2·446	·054	·096	94·22	2·21	4,375	10,701
B. 4257	17,363	34·84	5·44	1·64	58·50	1·0826	1·947	·104	·201	86·46	5·34	4,217	8,210
B. 5014	16,143	23·98	2·57	1·07	52·00	1·0888	2·216	·054	·147	91·68	2·44	2,565	5,684
B. 5298	21,834	31·50	3·89	4·80	55·50	1·0888	2·200	·069	·148	91·02	3·14	3,596	7,911
B. 6126	17,537	21·93	2·15	18·38	54·75	1·0839	2·028	·066	·193	88·69	3·25	2,482	5,033
B. 6223	19,047	30·12	6·38	8·12	57·00	1·0848	2·109	·029	·173	91·26	1·37	3,546	7,479
B. 6292	14,285	28·08	3·73	7·17	60·25	1·0888	2·155	·061	·201	89·16	2·83	3,480	7,499
B. 6345	18,815	30·07	4·38	1·22	56·75	1·0924	2·268	·051	·193	90·29	2·25	3,499	7,936

TABLE IV. DODDS.—PILGRIM FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	18,873	27·45	5·29	1·22	58·75	1·0938	2·365	·045	·138	92·82	1·90	3,303	7,812
B. 208	24,942	34·75	4·98	1·25	59·00	1·0974	2·479	·039	·127	93·72	1·57	4,185	10,375
B. 6278	20,266	24·63	5·96	2·24	57·50	1·0974	2·527	·019	·059	95·54	·75	2,891	7,306
B. 6281	17,855	24·33	5·83	1·20	59·50	1·0965	2·433	·032	·155	92·86	1·32	2,958	7,197
B. 6286	18,408	21·57	3·99	1·55	60·25	1·0831	2·025	·076	·162	89·48	3·75	2,688	5,443
B. 6304	15,272	15·19	3·40	...	58·00	1·0884	2·145	·060	·200	89·19	2·80	1,813	3,889
B. 6308	17,479	28·28	5·91	1·31	55·50	1·0861	2·151	·057	·138	91·69	2·65	3,237	6,963
B. 6347	17,653	29·14	4·80	·98	58·00	1·0947	2·339	·048	·185	90·94	2·05	2,391	5,593
B. 6352	17,117	22·38	5·61	...	62·00	1·0911	2·300	·036	·141	92·85	1·57	2,849	6,553
B. 6360	15,447	23·56	5·57	...	59·50	1·0870	2·119	·071	·180	89·41	3·35	2,889	6,123
B. 6381	20,557	27·01	4·85	3·28	61·00	1·0902	2·236	·066	·151	91·15	2·95	3,386	7,571
B. 6388	13,646	27·79	5·52	...	61·50	1·0947	2·378	·049	·145	92·46	2·06	3,497	8,316
B. 6405	14,692	27·97	3·94	2·69	60·75	1·0787	1·798	·114	·235	83·74	6·34	3,529	6,345
B. 6434	26,015	26·73	5·06	1·10	62·25	1·0893	2·203	·046	·180	90·70	2·09	3,421	7,536
B. 6439	16,840	21·88	2·88	...	61·00	1·0906	2·151	·093	·221	87·26	4·32	2,741	5,896
B. 6447	17,827	24·63	5·24	...	61·50	1·0861	2·087	·078	·181	88·96	3·74	3,124	6,520
B. 6450	18,350	29·42	6·90	2·47	64·00	1·0902	2·239	·040	·174	91·28	1·79	3,869	8,661
B. 6456	19,047	26·65	3·76	1·50	58·75	1·0879	2·151	·066	·176	89·89	3·07	3,224	6,935
B. 6512	16,339	22·13	4·10	1·45	53·00	1·0879	2·093	·100	·200	87·46	4·78	2,414	5,053
B. 6539	13,995	18·67	2·90	7·66	52·00	1·0879	2·138	·081	·174	89·34	3·79	1,998	4,272
B. 6696	22,705	23·10	4·82	2·49	57·75	1·0866	2·129	·045	·184	90·29	2·11	2,750	5,855

TABLE V. DODDS.—SUMMERVALE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	15,446	26·32	4·32	9·67	56·50	1·0853	2·129	·064	·130	91·65	3·01	3,070	6,536
B. 208	16,334	26·55	4·68	1·94	52·50	1·0978	2·466	·043	·148	92·81	1·74	2,845	7,016
B. 6835	14,680	25·93	5·04	1·89	57·50	1·0947	2·424	·016	·132	94·25	·66	3,050	7,393
B. 6855	11,517	18·16	4·56	...	51·00	1·0938	2·352	·024	·172	92·31	1·02	1,897	4,462
B. 7103	16,576	21·97	3·35	5·08	52·00	1·0906	2·249	·031	·185	91·24	1·38	2,346	5,276
B. 7111	9,555	11·89	1·94	23·41	57·00	1·0809	1·873	·078	·254	84·94	4·16	1,404	2,630
B. 7117	18,028	23·12	4·47	1·11	56·50	1·0853	2·080	·060	·183	89·54	2·88	2,696	5,608
B. 7132	17,624	21·23	3·69	8·19	55·00	1·0902	2·310	·026	·117	94·17	1·13	2,399	5,542
B. 7138	13,082	19·40	2·62	21·51	57·50	1·0800	1·989	·057	·136	91·14	2·87	2,314	4,603
B. 7153	14,740	22·10	3·46	1·11	54·00	1·0813	2·031	·045	·141	91·61	2·22	2,472	5,021
B. 7169	20,447	29·11	5·85	·59	53·00	1·0938	2·420	·076	·052	94·98	3·14	3,160	7,647
B. 7191	19,600	25·21	4·19	2·80	51·50	1·0853	2·171	·032	·120	93·46	1·47	2,679	5,816
B. 7200	15,446	20·83	5·01	·78	50·50	1·0875	2·223	·039	·120	93·32	1·75	2,167	4,817

TABLE VI. DODDS.—UPPER BAY TREE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	14,518	22·71	3·63	8·42	55·50	1·0893	2·245	·051	·133	92·42	2·27	2,592	5,819
B. 208	22,531	29·97	4·07	1·02	57·50	1·0969	2·472	·037	·123	93·92	1·50	3,519	8,699
B. 7241	14,711	18·37	2·51	·44	55·25	1·0861	2·122	·051	·173	90·45	2·40	2,094	4,443
B. 7244	19,860	24·59	4·40	...	51·50	1·0942	2·281	·078	·201	89·10	3·42	2,594	5,917
B. 7245	16,724	29·50	3·76	2·04	57·75	1·0853	2·119	·054	·140	91·22	3·02	3,516	7,450
B. 7252	13,355	25·40	3·89	3·16	58·50	1·0866	2·122	·081	·155	89·99	3·82	3,064	6,502
B. 7253	14,343	25·12	3·66	3·14	60·25	1·0906	2·262	·078	·125	91·76	3·45	3,109	7,033
B. 8477	21,254	23·15	3·03	1·61	50·00	1·0835	2·035	·081	·159	89·45	3·98	2,393	4,870
B. 8491	16,469	14·99	1·34	4·59	52·75	1·0861	2·051	·109	·186	87·43	5·31	1,631	3,345
B. 8520	18,059	30·69	3·58	4·31	60·25	1·0809	1·876	·119	·210	85·08	6·34	3,832	7,189
B. 8528	21,428	27·87	5·16	3·40	54·00	1·0800	1·892	·093	·197	86·71	4·92	3,121	5,905
B. 8533	19,918	15·40	2·46	8·78	56·50	1·0960	2·398	·071	·139	91·95	2·96	1,777	4,261
B. 8552	22,067	18·59	3·84	1·04	52·00	1·0960	2·436	·033	·139	93·40	1·35	1,975	4,811
B. 8555	18,118	26·91	4·61	10·34	53·75	1·0844	2·061	·069	·169	89·65	3·35	2,988	6,158
B. 8564	23,170	21·59	2·98	2·44	49·75	1·0857	2·015	·104	·215	86·33	5·16	2,217	4,467
B. 8574	16,492	21·93	2·33	7·49	54·25	1·0875	2·142	·076	·164	89·92	3·55	2,451	5,250
B. 8579	17,827	17·32	2·75	6·12	53·50	1·0831	1·970	·066	·227	87·05	3·35	1,916	3,775
B. 8600	18,350	19·78	5·37	·63	52·00	1·0965	2·398	·036	·186	91·53	1·50	2,101	5,038

TABLE VI.—*Concluded.* DODDS.—UPPER BAY TREE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 8606	14,866	19·26	2·93	·39	58·25	1·0866	2·064	·100	·194	87·53	4·84	2,313	4,774
B. 8607	13,742	17·07	3·02	1·39	49·25	1·0897	2·190	·049	·202	89·72	2·24	1,728	3,784
B. 8609	28,619	19·61	3·83	1·29	56·50	1·0924	2·339	·036	·137	93·11	1·54	2,271	5,312
B. 8651	13,438	20·86	3·56	...	55·50	1·0884	2·184	·039	·182	90·81	1·79	2,381	5,200
B. 8660	12,601	20·77	2·59	5·65	53·75	1·0848	2·051	·089	·171	88·75	4·34	2,305	4,728
D. 74	16,434	18·82	2·77	5·35	55·50	1·0879	2·155	·064	·174	90·06	2·97	2,151	4,635
Collyms	15,737	23·07	4·38	5·24	56·25	1·0920	2·304	·052	·145	92·12	2·26	2,662	6,133
Yellow Egyptian	15,737	17·86	3·01	4·24	54·25	1·0938	2·346	·076	·126	92·07	3·24	1,984	4,654
Striped Egyptian	15,272	22·35	3·68	5·73	57·25	1·0870	2·038	·125	·207	85·99	6·13	2,636	5,372
No. 26 Black Cane	17,479	23·18	3·50	3·83	57·00	1·0902	2·193	·104	·156	89·40	4·74	2,714	5,952
Applewhaites Seedling	16,492	25·15	4·23	2·07	52·25	1·0826	1·928	·071	·253	85·61	3·68	2,719	5,242

TABLE VII. DODDS.—UPPER CHAPEL FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not Sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	14,807	27·74	5·18	10·53	63·25	1·0817	1·963	·109	·156	88·11	5·55	3,633	7,132
B. 147	14,691	28·23	7·54	1·94	63·00	1·0813	1·950	·081	·186	87·96	4·15	3,684	7,184
B. 208	17,188	29·48	4·61	12·43	63·00	1·0875	2·132	·083	·167	89·50	3·89	3,825	8,155
B. 376	16,608	33·23	5·44	8·92	60·90	1·0769	1·805	·114	·181	85·95	6·32	4,211	7,601
B. 1030	20,847	22·16	4·02	1·10	59·00	1·0844	2·051	·093	·155	89·21	4·53	2,701	5,540
B. 1355	20,847	26·52	8·04	...	64·50	1·0870	2·161	·056	·153	91·18	2·59	3,525	7,618
B. 1529	28,163	19·73	6·64	·61	62·50	1·0969	2·446	·039	·147	92·93	1·59	2,518	6,159
B. 1753	25,202	29·35	4·48	2·47	58·50	1·0817	1·934	·119	·175	86·80	6·15	3,555	6,875
B. 3289	14,808	21·10	3·79	11·11	60·50	1·0760	1·821	·081	·175	87·67	4·45	2,657	4,838
B. 3635	17,653	28·91	7·08	·65	64·00	1·0906	2·242	·068	·155	90·95	3·03	3,800	8,520
B. 3656	22,763	33·83	5·18	1·75	64·50	1·0773	1·698	·147	·267	80·40	8·66	4,537	7,704
B. 3668	18,001	24·21	5·18	·96	62·25	1·0888	2·138	·076	·203	88·46	3·55	3,101	6,630
B. 3675	24,884	30·55	5·66	1·23	63·25	1·0861	2·103	·078	·165	89·64	3·71	3,986	8,383
B. 3681	15,678	25·04	5·16	6·57	65·25	1·0835	1·967	·114	·194	86·46	5·80	3,391	6,670
B. 3746	19,221	30·88	5·60	·90	63·50	1·0826	2·035	·071	·146	90·36	3·49	4,057	8,256
B. 3750	17,130	35·02	5·50	3·91	65·00	1·0831	2·051	·076	·136	90·63	3·71	4,708	9,656
B. 3810	17,304	35·59	6·84	7·45	65·25	1·0729	1·672	·139	·184	83·81	8·31	4,849	8,108
B. 3819	20,208	28·18	3·78	·85	63·50	1·0870	2·151	·063	·156	90·76	2·93	3,687	7,931

TABLE VII.—*Concluded.* DODDS.—UPPER CHAPEL FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
B. 3859	20,672	28·52	5·99	·84	62·75	1·0879	2·090	·104	·199	87·34	4·98	3,684	7,700
B. 5078	17,421	25·79	4·82	5·36	62·00	1·0725	1·588	·083	·313	80·04	5·23	3,340	5,304
T. 24	21,776	24·42	6·25	·53	63·50	1·0938	2·333	·054	·161	91·56	2·31	3,176	7,410
Queensland Creole	11,846	24·63	4·56	5·56	60·50	1·0897	2·265	·032	·144	92·79	1·41	3,063	6,938
Rappoe	15,040	23·49	3·89	4·78	61·00	1·0848	2·057	·076	·178	89·01	3·69	2,958	6,085
Caledonian Queen	12,310	20·04	3·89	6·61	64·00	1·0844	2·122	·047	·130	92·30	2·21	2,649	5,621
Jamaica Cane	13,298	24·73	4·95	5·37	62·37	1·0857	2·129	·048	·157	91·22	2·25	3,182	6,774
Bourbon	14,517	23·75	4·10	9·75	62·00	1·0782	1·811	·119	·205	84·82	6·57	3,059	5,540

TABLE. VIII. DODDS.—UPPER PADMORE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Lb. per gallon. Glucose.	Lb. per gallon. Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	15,156	25·95	5·39	3·33	57·50	1·0893	2·268	·039	·122	93·37	1·72	3,068	6,958
B. 7282	13,258	14·52	2·16	11·04	51·00	1·0956	2·355	·038	·203	90·72	1·61	1,514	3,565
B. 7297	15,679	17·37	3·99	8·78	51·00	1·0822	1·993	·066	·181	88·97	3·31	1,834	3,655
B. 7318	18,931	21·44	3·97	2·98	52·50	1·0839	2·106	·038	·143	92·09	1·80	2,326	4,899
B. 7344	16,898	21·91	5·26	2·68	50·00	1·0902	2·313	·054	·086	94·29	2·33	2,250	5,204
B. 7379	18,582	14·60	2·85	...	47·50	1·0831	2·100	·035	·128	92·80	1·67	1,435	3,014
B. 7389	33,096	25·21	5·12	1·72	45·00	1·0853	2·112	·035	·176	90·92	1·66	2,341	4,944
B. 7393	24,854	25·51	4·23	5·93	53·00	1·0831	2·019	·083	·161	89·22	4·11	2,796	5,645
B. 7394	21,776	25·79	5·31	·53	53·50	1·0879	2·252	·029	·112	94·11	1·29	2,841	6,398
B. 7438	15,795	21·72	4·28	2·86	56·00	1·0861	2·181	·025	·140	92·97	1·15	2,509	5,472
B. 7445	14,750	21·49	4·95	1·55	54·00	1·0866	2·119	·078	·161	89·86	3·68	2,392	5,069
B. 7482	19,105	24·94	4·41	...	58·00	1·0965	2·462	·027	·131	93·97	1·10	2,955	7,275
B. 7489	21,602	26·57	5·47	2·62	52·00	1·0929	2·355	·027	·142	93·30	1·15	2,832	6,669
B. 7496	24,273	25·33	5·70	...	56·00	1·0879	2·197	·053	·143	91·81	2·41	2,920	6,415
B. 7503	18,084	13·33	4·15	·46	53·06	1·0897	2·304	·022	·115	94·39	·95	1,454	3,350
B. 7509	21,183	24·70	4·70	·65	48·50	1·0956	2·436	·034	·126	93·84	1·40	2,449	5,966
B. 7510	19,047	26·73	4·20	4·37	52·50	1·0942	2·349	·048	·163	91·76	2·04	2,873	6,749
B. 7514	14,284	18·19	3·11	·89	56·00	1·0782	1·928	·064	·143	90·30	3·32	2,117	4,082

TABLE VIII.—*Continued.* DODDS.—UPPER PADMORE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 7518	22,065	29·29	7·72	2·06	57·00	1·0835	2·093	·046	·136	92·00	2·20	3,452	7,225
B. 7534	18,815	26·13	4·15	...	51·25	1·0897	2·239	·041	·161	91·72	1·83	2,753	6,164
B. 7576	20,208	23·82	3·11	5·18	54·50	1·0817	1·970	·089	·169	88·42	4·52	2,689	5,297
B. 7577	16,673	26·14	6·67	...	55·50	1·0861	2·187	·031	·128	93·22	1·42	2,992	6,543
B. 7594	21,892	21·13	6·64	1·05	52·00	1·0933	2·343	·049	·144	92·39	2·09	2,251	5,274
B. 7611	12,669	18·88	4·03	4·76	53·00	1·0924	2·365	·020	·127	94·15	·84	2,051	4,851
B. 7612	16,144	20·14	5·72	3·65	50·50	1·0853	2·122	·033	·168	91·35	1·56	2,099	4,454
B. 7620	14,227	16·36	5·29	9·93	50·00	1·0870	2·193	·027	·150	92·53	1·23	1,685	3,695
B. 7627	32,517	36·42	8·55	3·45	55·50	1·0848	2·096	·035	·180	90·70	1·67	4,174	8,749
B. 7661	16,434	21·75	5·68	...	54·00	1·0947	2·436	·008	·128	94·71	·33	2,403	5,854
B. 7663	15,737	19·68	5·65	3·90	54·00	1·0879	2·271	·025	·097	94·90	1·10	2,188	4,969
B. 7670	15,853	22·99	5·81	1·09	57·00	1·0778	1·889	·071	·163	88·98	3·76	2,724	5,146
B. 7679	16,666	24·19	3·63	3·37	55·50	1·0809	2·028	·039	·138	91·97	1·92	2,782	5,642
B. 7680	14,517	21·09	4·24	...	53·00	1·0793	1·950	·081	·139	89·86	4·15	2,319	4,524
B. 7683	15,678	22·82	4·21	1·82	55·21	1·0870	2·168	·053	·149	91·48	2·44	2,595	5,625
B. 7685	16,027	18·43	4·25	...	47·00	1·0965	2·456	·020	·144	93·74	·81	1,770	4,347
B. 7686	18,640	20·38	5·11	3·31	54·00	1·0897	2·268	·044	·129	92·91	1·94	2,261	5,128
B. 7697	26,480	16·85	3·73	1·72	51·50	1·0933	2·268	·104	·164	89·44	4·59	1,778	4,033

TABLE VIII.—*Continued.* DODDS.—UPPER PADMORE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 7724	17,189	18·83	3·56	5·73	54·00	1·0929	2·346	·030	·148	92·95	1·28	2,083	4,887
B. 7774	15,737	27·61	5·82	2·17	52·04	1·0866	2·083	·056	·219	88·34	2·69	2,962	6,170
B. 7777	17,480	28·46	4·93	·68	55·00	1·0915	2·349	·035	·105	94·38	1·49	3,211	7,543
B. 7779	25,551	27·95	4·54	2·00	51·50	1·0906	2·262	·036	·167	91·76	1·59	2,956	6,686
B. 7782	24,506	32·77	6·25	·47	64·00	1·0782	1·844	·119	·172	86·37	6·45	4,357	8,034
B. 7794	13,392	23·24	3·21	1·60	65·82	1·0938	2·310	·046	·192	90·66	1·99	3,132	7,235
B. 7834	18,060	28·75	4·85	·96	59·75	1·0831	2·019	·066	·178	89·22	3·27	3,553	7,174
B. 7845	13,770	17·74	3·04	4·05	61·00	1·0835	2·064	·051	·160	90·73	2·47	2,237	4,617
B. 7867	24,215	25·56	5·57	1·42	56·00	1·0942	2·401	·027	·132	93·79	1·12	2,930	7,035
B. 7871	14,542	25·36	3·79	4·00	58·00	1·0875	2·096	·089	·197	87·99	4·25	3,030	6,351
B. 7922	15,138	24·30	3·86	...	61·21	1·0866	2·080	·100	·178	88·21	4·81	3,066	6,377
B. 7944	17,420	23·47	3·57	5·03	51·10	1·0906	2·190	·089	·183	88·84	4·06	2,463	5,396
B. 7946	18,465	36·24	4·04	·93	62·76	1·0853	2·132	·052	·139	91·78	2·44	4,694	10,008
B 7950	18,757	27·12	5·65	2·12	59·00	1·0893	2·051	·083	·295	84·44	4·05	3,290	6,748
B. 7957	13,549	19·18	4·15	9·68	62·25	1·0911	2·281	·046	·150	92·09	2·02	2,451	5,591
B. 8011	15,214	25·33	4·43	2·24	59·00	1·0857	2·083	·086	·165	89·25	4·13	3,083	6,422
B. 208	18,582	30·18	5·47	·93	57·00	1·0938	2·401	·026	·121	94·23	1·08	3,522	8,456
B. 8016	12,836	16·45	3·48	6·67	57·00	1·0906	2·223	·068	·174	90·18	3·06	1,926	4,281

TABLE VIII.—*Concluded.* DODDS.—UPPER PADMORE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 8036	22,065	21·23	6·32	1·55	56·50	1·0956	2·333	·071	·192	89·87	3·04	2,455	5,727
B. 8038	20,517	23·47	4·75	1·85	49·75	1·0793	1·957	·046	·167	90·18	2·35	2,424	4,744
B. 8043	20,092	22·53	4·28	2·26	47·50	1·0800	1·938	·061	·183	88·82	3·15	2,219	4,300
B. 8099	19,744	23·79	5·73	5·03	54·00	1·0844	2·048	·069	·182	89·08	3·37	2,652	5,431
B. 8114	15,121	21·28	5·51	·91	56·00	1·0875	2·213	·035	·134	92·91	1·58	2,454	5,431
B. 8174	18,445	30·43	4·99	·55	55·00	1·0778	1·869	·100	·154	88·04	5·35	3,477	6,499
B. 8191	13,821	20·01	3·50	2·06	57·00	1·0875	2·197	·020	·165	92·23	·91	2,350	5,163
B. 8254	17,827	22·92	3·84	3·15	52·50	1·0920	2·320	·039	·142	92·76	1·68	2,468	5,726
B. 8314	20,557	31·32	4·93	3·28	60·00	1·0853	2·177	·033	·113	93·72	1·52	3,878	8,442
B. 8323	18,358	28·24	4·19	...	54·50	1·0870	2·174	·026	·170	91·73	1·20	3,171	6,894
B. 8327	19,163	27·51	4·15	2·94	52·50	1·0853	2·129	·050	·144	91·65	2·35	2,980	6,344
B. 8334	21,079	32·77	6·56	·82	55·00	1·0857	2·203	·026	·105	94·39	1·18	3,718	8,191
B. 8340	20,905	12·73	3·45	2·70	51·00	1·0787	1·931	·028	·188	89·94	1·45	1,348	2,603
B. 8347	20,847	28·78	4·12	...	51·50	1·0857	2·041	·081	·212	87·45	3·97	3,058	6,241
B. 8382	19,221	25·46	3·86	2·36	52·50	1·0844	2·142	·086	·071	93·17	4·01	2,761	5,914
B. 8387	14,070	19·26	3·35	3·67	51·00	1·0888	2·187	·031	·199	90·48	1·42	2,021	4,420
B. 8403	16,434	24·96	3·97	28·54	54·25	1·0765	1·941	·045	·102	92·96	2·32	2,818	5,470
B. 8413	19,628	16·20	2·59	1·74	45·92	1·0822	1·999	·052	·189	89·24	2·60	1,540	3,078

TABLE IX. DODDS.—WELL FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	18,001	25·25	4·36	5·78	62·75	1·0866	2·158	·061	·139	91·52	2·83	3,265	7,046
B. 208	23,460	34·17	7·65	3·58	62·00	1·0902	2·242	·052	·159	91·40	2·32	4,354	9,762
B. 1376	18,117	24·76	4·61	3·70	59·00	1·0835	2·041	·081	·153	89·71	3·97	3,020	6,164
B. 3694	15,156	31·99	6·79	1·13	62·00	1·0747	1·750	·114	·178	85·70	6·51	4,134	7,235
B. 3696	20,453	30·64	4·32	...	64·00	1·0835	2·093	·083	·099	92·00	3·97	4,055	8,487
B. 3700	25,086	32·28	6·14	...	62·20	1·0831	2·093	·046	·124	92·49	2·20	4,155	8,696
B. 3708	18,988	24·06	5·65	...	65·50	1·0795	1·963	·078	·129	90·46	5·97	3,270	6,419
B. 3729	19,627	19·81	5·81	1·74	62·75	1·0853	2·181	·036	·106	93·89	1·65	2,565	5,594
B. 3731	19,511	19·91	4·90	2·04	65·50	1·0924	2·362	·040	·110	94·03	1·69	2,674	6,316
B. 3747	20,730	30·67	7·44	·83	63·50	1·0888	2·232	·046	·139	92·35	2·06	4,006	8,941
B. 3838	18,292	24·03	5·83	3·08	64·50	1·0853	2·103	·078	·142	90·53	3·71	3,198	6,725
B. 3853	17,943	31·71	5·88	·64	63·50	1·0804	2·028	·048	·117	92·48	2·37	4,174	8,465
B. 3871	19,321	32·79	5·55	·89	65·25	1·0721	1·620	·125	·228	82·11	7·72	4,471	7,243
B. 3876	17,014	23·64	4·51	2·33	64·00	1·0694	1·555	·156	·193	81·67	10·03	3,169	4,928
B. 3922	19,564	33·62	5·65	1·35	64·00	1·0879	2·206	·042	·145	92·19	1·90	4,430	9,773
B. 4028	17,653	39·40	4·61	1·30	62·75	1·0712	1·610	·147	·193	82·56	9·13	5,171	8,325
B. 4031	21,427	35·80	4·80	3·15	65·00	1·0791	1·785	·125	·248	82·72	7·00	4,830	8,623
B. 4086	20,324	18·64	4·20	...	58·00	1·0861	2·155	·040	·151	91·86	1·86	2,208	4,758

TABLE IX.—*Concluded.* DODDS.—WELL FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
B. 4164	20,587	28·42	4·84	1·89	59·50	1·0676	1·432	·109	·316	77·11	7·61	3,548	5,081
B. 4452	22,182	40·47	5·39	1·55	65·50	1·0769	1·782	·109	·209	84·86	6·12	5,517	9,831
B. 4578	21,718	39·53	5·37	1·06	64·50	1·0809	1·960	·100	·145	88·89	5·10	5,284	10,357
B. 4596	12,194	30·05	3·89	5·83	62·50	1·0671	1·503	·227	·116	81·42	15·10	3,942	5,925
B. 4929	19,743	38·63	6·71	5·03	63·00	1·0751	1·740	·100	·213	84·75	5·75	5,070	8,822
B. 5014	18,117	33·18	3·89	2·19	62·00	1·0778	1·844	·089	·190	86·86	4·83	4,277	7,887

TABLE X. WATERFORD PLANTATION.—FOASTER FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 11629	6,406	4·18	1·32	2·80	43·00	1·0756	1·753	·046	·266	84·89	2·62	374	656
B. 11660	13,783	10·56	5·00	...	51·50	1·0884	2·135	·056	·214	88·77	2·62	1,119	2,389
B. 11692	9,312	7·93	3·21	3·96	51·50	1·0769	1·798	·104	·198	85·62	5·78	849	1,527
B. 11724	15,696	12·60	4·31	2·97	47·40	1·0853	2·048	·043	·232	88·16	2·10	1,233	2,525
B. 11788	12,000	6·30	4·61	·79	48·50	1·0769	1·782	·119	·199	84·86	6·68	636	1,133
B. 11820	3,032	1·18	·68	20·00	43·33	1·0632	1·403	·104	·237	81·02	7·41	108	152

SELECTED VARIETIES.

TABLE XI. WATERFORD PLANTATION.—NO. 2 TENNANT FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre. Canes.	Weight in tons per acre. Cane Tops.	Per cent by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Normal Juice. Lb. per gallon. Saccharose.	Normal Juice. Lb. per gallon. Glucose.	Normal Juice. Lb. per gallon. Solids not Sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio.	Gallons of Juice per acre.	Saccharose lb. per acre.
White Transparent ... ... Series i...	19,776	27·96	5·49	3·06	61·50	1·0888	2·206	·052	·159	91·27	2·36	3,538	7,805
" ... ... " ii...	14,496	27·06	6·69	4·43	60·00	1·0822	2·041	·057	·142	91·12	2·79	3,361	6,860
mean...	...	27·51	...	...	...	...	...	...	...	91·20	...	...	7,335
B. 208 ... ... Series i...	12,528	27·60	4·86	7·45	62·00	1·0870	2·145	·081	·144	90·51	3·78	3,526	7,563
" ... ... " ii...	15,456	24·32	6·77	5·85	61·00	1·0835	2·181	·057	·037	95·87	2·61	3,067	6,689
mean...	...	25·96	...	...	...	...	...	...	...	93·19	...	...	7,126
B. 1753 ... ... Series i...	17,232	29·25	3·54	3·23	61·50	1·0787	1·785	·156	·206	83·14	8·74	3,735	6,667
" ... ... " ii...	21,600	28·07	2·53	...	59·00	1·0813	1·863	·119	·235	84·03	6·39	3,431	6,392
mean...	...	28·66	...	...	...	...	...	...	...	83·59	...	...	6,530
B. 6048 ... ... Series i...	18,624	31·18	5·16	3·48	64·50	1·0778	1·620	·208	·295	76·31	12·84	4,180	6,772
" ... ... " ii...	18,288	28·01	4·63	2·06	63·00	1·0795	1·740	·125	·305	80·18	7·18	3,661	6,370
mean...	...	29·60	...	...	...	...	...	...	...	78·25	...	...	6,571
D. 95 ... ... Series i...	19,104	32·40	6·64	2·69	64·50	1·0893	2·278	·036	·115	93·78	1·58	4,297	9,789
" ... ... " ii...	17,904	30·21	6·96	...	62·00	1·0875	2·229	·042	·111	93·58	1·88	3,859	8,602
mean...	...	31·31	...	...	...	...	...	...	...	93·68	...	...	9,196
W. No. 2 ... ... Series i...	30,864	33·43	7·50	2·13	58·50	1·0861	2·116	·083	·147	90·20	3·92	4,033	8,534
" ... ... " ii...	27,648	32·79	8·79	...	58·00	1·0844	2·080	·074	·145	90·48	3·56	3,928	8,170
mean...	...	33·11	...	...	...	...	...	...	...	90·34	...	...	8,352

SELECTED VARIETIES.

TABLE XI.—*Continued.* WATERFORD PLANTATION.—NO. 2 TENNANT FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
Sport Red Cane (Husbands) ... ... Series i...	16,320	28·67	4·50	...	58·50	1·0857	2·190	·042	·102	93·83	1·92	3,461	7,580
" " ... ... " ii...	19,728	24·54	6·13	2·84	57·00	1·0897	2·242	·061	·138	91·85	2·72	2,875	6,446
mean...	...	26·61	...	...	...	...	...	...	...	92·84	...	...	7,013
White Sport ... ... Series i...	16,368	38·17	6·34	2·80	62·50	1·0817	1·866	·147	·215	83·75	7·88	4,939	9,216
" ... ... " ii...	12,192	28·91	4·61	1·93	64·00	1·0782	1·727	·109	·299	80·89	6·31	3,844	6,639
mean...	...	33·54	...	...	...	...	...	...	...	82·32	...	...	7,928
Queensland White Bamboo ... ... Series i...	16,128	30·79	5·57	4·27	63·50	1·0707	1·518	·357	...	81·58	22·58	4,091	6,468
" ... ... " ii...	19,968	27·75	4·50	1·19	62·00	1·0839	1·876	·119	·292	82·03	6·34	3,556	6,671
mean...	...	29·27	...	...	...	...	...	...	...	81·81	...	...	6,570
Java 51 ... ... Series i...	14,976	37·54	4·67	1·58	62·00	1·0738	1·688	·147	·184	83·61	8·71	4,856	8,197
" ... ... , ii...	17,520	27·64	5·79	1·62	54·50	1·0782	1·814	·114	·207	84·96	6·28	3,130	5,678
mean...	...	32·59	...	...	...	...	...	...	...	84·29	...	...	6,938
Java G Z 96 ... ... Series i...	21,552	29·01	4·33	...	58·50	1·0866	2·142	·066	·150	90·84	3·08	3,499	7,495
" ... ... " ii...	27,072	25·18	5·70	...	57·00	1·0920	2·258	·081	·162	90·28	3·59	2,944	6,648
mean...	...	27·10	...	...	...	...	...	...	...	90·56	...	...	7,072
Java 137 ... ... Series i...	27,360	29·68	5·27	2·56	57·75	1·0778	1·882	·086	·155	88·65	4·57	3,562	6,704
" ... ... " ii...	25,920	22·57	4·24	2·70	57·00	1·0902	2·239	·052	·162	91·28	2·32	2,643	5,918
mean...	...	26·13	...	...	...	...	...	...	...	89·97	...	...	6,311

SELECTED VARIETIES.

TABLE XI.—*Concluded.* WATERFORD PLANTATION NO. 2 TENNANT FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Lb. per gallon. Glucose.	Lb. per gallon. Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
Java 223 ... ... Series i...	14,304	16·89	·86	6·88	58·00	1·0791	1·857	·096	·205	86·05	5·17	2,033	3,775
" ... ... " ii...	14,784	12·32	1·11	6·67	57·50	1·0813	1·847	·132	·238	83·31	7·15	1,468	2,711
mean...	...	14·61	...	...	...	...	...	...	...	84·68	...	...	3,243
Java G. Z. P. 100 ... ... Series i...	23,808	23·68	4·29	3·88	58·50	1·0879	2·158	·056	·179	90·18	2·59	2,852	6,155
" ... ... " ii...	26,496	21·75	3·86	...	56·00	1·0929	2·281	·064	·179	90·37	2·81	2,496	5,693
mean...	...	22·72	...	...	...	...	...	...	...	90·28	...	...	5,924

TABLE XII. WATERFORD PLANTATION.—QUARRY FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	12,480	22·61	4·11	7·47	59·00	1·0866	2·087	·074	·197	88·51	3·55	2,750	5,739
B. 1529	18,432	24·22	3·90	...	58·50	1·0974	2·453	·033	·159	92·74	1·35	2,891	7,092
B. 6360	16,848	30·99	5·91	3·84	59·00	1·0848	2·035	·081	·195	88·06	3·98	3,775	7,682
Java 51	14,016	38·19	6·47	...	59·00	1·0765	1·733	·192	·163	83·00	11·08	4,688	8,124
W. No. 2	20,352	36·65	6·99	·93	57·00	1·0884	2·206	·052	·147	91·73	2·35	4,299	9,484
B. 6265	27,120	32·49	5·12	5·20	61·00	1·0773	1·766	·147	·199	83·62	8·32	4,120	7,276
Seedling from Heywoods'	14,137	26·88	5·03	19·40	61·00	1·0778	1·782	·147	·194	83·94	8·25	3,408	6,073

SELECTED VARIETIES.

TABLE XIII. WATERFORD PLANTATION.—BURNT FIELD.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre. Canes.	Weight in tons per acre. Cane Tops.	Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Normal Juice. Lb. per gallon. Saccharose.	Normal Juice. Lb. per gallon. Glucose.	Normal Juice. Lb. per gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio.	Gallons of Juice per acre.	Saccharose lb. per acre.
White Transparent ... ... Series i...	16,535	15·52	5·70	1·91	54·00	1·0870	2·206	·031	·133	93·08	1·41	1,727	3,810
" ... ... " ii...	19,681	12·28	6·93	2·01	51·25	1·0848	2·145	·025	·141	92·82	1·17	1,299	2,786
mean...	...	13·90	...	...	...	...	...	...	...	92·95	...	...	3,298
D. 95 ... ... Series i...	14,599	14·19	6·75	...	53·00	1·0893	2·278	·018	·133	93·79	·79	1,546	3,522
" ... ... " ii...	17,624	13·14	4·83	1·58	54·00	1·0879	2·216	·029	·148	92·60	1·31	1,461	3,238
mean...	...	13·67	...	...	...	...	...	...	...	93·20	...	...	3,380
B. 208 ... ... Series i...	12,906	11·85	4·54	·93	55·00	1·0947	2·398	·025	·149	93·23	1·04	1,333	3,197
" ... ... " ii...	16,535	10·17	4·72	...	56·50	1·0897	2·245	·041	·155	91·97	1·83	1,181	2,651
mean...	...	11·01	...	...	...	...	...	...	...	92·60	...	...	2,924
B. 376 ... ... Series i...	17,786	9·16	5·55	1·56	51·00	1·0848	2·168	·018	·125	93·81	·83	965	2,092
" ... ... " ii...	10,647	6·21	4·00	1·12	49·50	1.0817	2·031	·037	·160	91·16	1·82	637	1,294
mean...	...	7·69	...	...	..	...	...	...	...	92·49	...	...	1,693
W. No. 2. ... ... Series i...	19,883	20·92	7·53	1·00	53·50	1·0866	2·190	·031	·137	92·88	1·42	2,307	5,052
" ... ... " ii...	22,625	17·90	6·03	...	51·75	1·0848	2·135	·041	·135	92·38	1·92	1,912	4,082
mean...	...	19·41	...	...	...	...	...	...	...	92·63	...	...	4,567
Sport Red Cane (Husbands) ... ... Series i...	11,131	9·11	3·08	...	52·00	1·0857	2·158	·025	·151	92·46	1·16	977	2,108
" ... ..., ii...	15,204	14·58	6·16	...	60·00	1·0911	2·320	·018	·139	93·66	·78	1,796	4,167
mean...	...	11·85	...	...	...	...	...	...	...	93·06	...	...	3,138

TABLE XIV. WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.
B. 15777 ...	35	22·50	1·766	B. 16534 ...	41	26·36	1·999
,, 15805 ...	30	19·29	2·080	,, 16536 ...	43	27·64	2·187
,, 15860 ...	35	22·50	2·103	,, 16546 ...	24	15·43	2·249
,, 15877 ...	28	18·00	2·155	,, 16554 ...	22	14·14	2·203
,, 15878 ...	37	23·79	2·057	,, 16568 ...	28	18·00	1·866
,, 15937 ...	25	16·07	1·892	,, 16624 ...	25	16·07	2·430
,, 15951 ...	24	15·43	2·038	,, 16650 ...	17	10·93	1·889
,, 15963 ...	25	16·07	2·038	,, 16665 ...	31	19·93	2·236
,, 15964 ...	23	14·78	2·326	,, 16680 ...	36	23·14	2·090
,, 15981 ...	24	15·43	1·886	,, 16701 ...	23	14·78	1·695
,, 16035 ...	34	21·86	2·106	,, 16716 ...	35	22·50	1·763
,, 16040 ...	26	16·71	2·051	,, 16717 ...	34	21·86	1·831
,, 16072 ...	37	23·79	2·135	,, 16719 ...	26	16·71	1·834
,, 16080 ...	41	26·36	1·938	,, 16720 ...	20	12·86	1·539
,, 16089 ...	24	15·43	2·161	,, 16734 ...	37	23·79	1·938
,, 16100 ...	33	21·21	2·044	,, 16736 ...	30	19·29	1·840
,, 16103 ...	31	19·93	1·831	,, 16739 ...	26	16·71	1·954
,, 16116 ...	35	22·50	2·074	,, 16754 ...	27	17·36	1·695
,, 16118 ...	20	12·86	2·129	,, 16772 ...	24	15·43	1·766
,, 16119 ...	37	23·79	2·051	,, 16778 ...	32	20·57	1·717
,, 16134 ...	29	18·64	1·925	,, 16790 ...	19	12·21	1·837
,, 16136 ...	47	31·21	1·740	,, 16810 ...	33	21·21	2·138
,, 16146 ...	24	15·43	1·876	,, 16812 ...	36	23·14	1·912
,, 16148 ...	41	26·36	1·863	,, 16815 ...	27	17·36	2·022
,, 16182 ...	23	14·78	1·601	,, 16824 ...	38	24·43	1·889
,, 16183 ...	22	14·14	2·051	,, 16829 ...	25	16·07	1·545
,, 16185 ...	43	27·64	1·805	,, 16831 ...	28	18·00	2·012
,, 16186 ...	36	23·14	2·061	,, 16832 ...	32	20·57	2·174
,, 16196 ...	24	15·43	1·967	,, 16833 ...	33	21·21	2·255
,, 16216 ...	30	19·29	2·119	,, 16841 ...	38	24·43	1·477
,, 16220 ...	35	22·50	2·249	,, 16846 ...	31	19·93	2·148
,, 16222 ...	28	18·00	1·947	,, 16851 ...	28	18·00	1·614
,, 16224 ...	50	32·14	2·015	,, 16858 ...	44	28·29	1·626
,, 16241 ...	27	17·36	1·944	,, 16866 ...	35	22·50	2·236
,, 16265 ...	32	20·57	2·083	,, 16873 ...	37	23·79	1·746
,, 16283 ...	35	22·50	1·695	,, 16875 ...	47	30·21	1·925
,, 16290 ...	28	18·00	2·323	,, 16882 ...	31	19·93	1·474
,, 16301 ...	33	21·21	1·675	,, 16886 ...	21	13·50	1·753
,, 16304 ...	30	19·29	1·918	,, 16887 ...	26	16·71	1·983
,, 16305 ...	22	14·14	2·404	,, 16894 ...	31	19·93	1·805
,, 16341 ...	22	14·14	2·203	,, 16898 ...	28	18·00	2·038
,, 16348 ...	18	11·57	1·934	,, 16901 ...	36	23·14	1·824
,, 16368 ...	30	19·29	2·044	,, 16905 ...	21	13·50	2·129
,, 16385 ...	19	12·21	2·041	,, 16906 ...	23	14·78	2·135
,, 16400 ...	25	16·07	1·989	,, 16910 ...	30	19·29	1·892
,, 16418 ...	24	15·43	2·197	,, 16911 ...	24	15·43	2·223
,, 16442 ...	21	13·50	2·216	,, 16912 ...	35	22·50	1·821
,, 16453 ...	24	15·43	2·268	,, 16914 ...	32	20·57	1·860
,, 16471 ...	17	10·93	2·401	,, 16919 ...	40	25·71	2·019
,, 16476 ...	25	16·07	2·051	,, 16921 ...	31	19·93	1·954
,, 16479 ...	23	14·78	1·941	,, 16932 ...	24	15·43	2·158
,, 16482 ...	20	12·86	2·252	,, 16934 ...	23	14·78	1·698
,, 16490 ...	22	14·14	2·310	,, 16942 ...	27	17·36	2·142
,, 16492 ...	27	17·36	2·213	,, 16944 ...	26	16·71	1·899
,, 16495 ...	24	15·43	2·056	,, 16951 ...	44	28·29	2·116
,, 16497 ...	16	10·29	1·895	,, 16952 ...	22	14·14	2·359
,, 16498 ...	41	26·36	2·307	,, 16953 ...	37	23·79	1·986
,, 16500 ...	24	15·43	2·236	,, 16954 ...	29	18·64	2·336
,, 16504 ...	24	15·43	2·109	,, 16957 ...	32	20·57	2·064
,, 16508 ...	37	23·79	2·171	,, 16959 ...	28	18·00	1·744
,, 16518 ...	30	19·29	2·291	,, 16962 ...	38	24·43	1·918

TABLE XIV.—*Continued.* WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.
B. 16963 ...	24	15·43	2·192	B. 17472 ...	30	19·29	1·866
,, 16968 ...	43	27·64	2·148	,, 17479 ...	22	14·14	1·776
,, 16971 ...	31	19·93	1·844	,, 17488 ...	22	14·14	2·044
,, 16974 ...	43	27·64	1·853	,, 17493 ...	19	12·21	1·688
,, 16982 ...	34	21·86	1·944	,, 17494 ...	28	18·00	1·549
,, 16985 ...	23	14·78	2·012	,, 17500 ...	27	17·36	1·915
,, 16989 ...	28	18·00	1·698	,, 17507 ...	23	14·78	1·847
,, 16991 ...	24	15·43	1·918	,, 17510 ...	26	16·71	1·980
,, 16997 ...	33	21·21	2·155	,, 17520 ...	32	20·57	1·750
,, 17008 ...	35	22·50	1·863	,, 17528 ...	31	19·93	1·523
,, 17021 ...	25	16·07	2·074	,, 17533 ...	20	12·86	2·242
,, 17025 ...	30	19·29	2·002	,, 17537 ...	32	20·57	2·138
,, 17032 ...	30	19·29	1·905	,, 17547 ...	22	14·14	1·744
,, 17036 ...	40	25·71	1·857	,, 17557 ...	45	28·93	1·938
,, 17045 ...	32	20·57	1·989	,, 17560 ...	25	16·07	2·232
,, 17089 ...	23	14·78	1·503	,, 17561 ...	27	17·36	1·659
,, 17111 ...	16	10·29	1·763	,, 17563 ...	32	20·57	1·737
,, 17120 ...	27	17·36	2·281	,, 17566 ...	32	20·57	1·824
,, 17123 ...	26	16·71	1·766	,, 17568 ...	27	17·36	2·200
,, 17124 ...	28	18·00	1·756	,, 17577 ...	29	18·64	2·307
,, 17140 ...	30	19·29	2·041	,, 17579 ...	36	23·14	1·989
,, 17153 ...	32	20·57	2·087	,, 17582 ...	32	20·57	1·601
,, 17174 ...	22	14·14	1·925	,, 17584 ...	23	14·78	1·912
,, 17180 ...	16	10·29	1·921	,, 17589 ...	47	30·21	2·041
,, 17185 ...	30	19·29	1·776	,, 17605 ...	28	18·00	2·002
,, 17200 ...	22	14·14	1·494	,, 17606 ...	27	17·36	1·960
,, 17207 ...	42	27·00	1·827	,, 17609 ...	24	15·43	2·317
,, 17209 ...	33	21·21	1·785	,, 17610 ...	27	17·36	1·811
,, 17210 ...	22	14·14	1·701	,, 17611 ...	23	14·78	1·652
,, 17226 ...	30	19·29	1·818	,, 17627 ...	27	17·36	2·258
,, 17229 ...	25	16·07	1·795	,, 17629 ...	17	10·93	1·986
,, 17234 ...	20	12·86	1·902	,, 17631 ...	22	14·14	1·626
,, 17235 ...	40	25·71	1·954	,, 17641 ...	23	14·78	1·831
,, 17238 ...	15	9·64	2·265	,, 17652 ...	21	13·50	1·976
,, 17247 ...	23	14·78	2·190	,, 17661 ...	20	12·86	2·210
,, 17251 ...	43	27·64	2·051	,, 17685 ...	32	20·57	1·879
,, 17252 ...	40	25·71	2·057	,, 17701 ...	21	13·50	1·879
,, 17253 ...	15	9·64	2·112	,, 17800 ...	24	15·43	2·197
,, 17275 ...	27	17·36	1·591	,, 17804 ...	21	13·50	1·844
,, 17276 ...	40	25·71	1·720	,, 17812 ...	27	17·36	1·980
,, 17282 ...	28	18·00	2·112	,, 17838 ...	20	12·86	2·038
,, 17296 ...	41	26·36	2·041	,, 17841 ...	29	18·64	1·610
,, 17301 ...	35	22·50	1·795	,, 17844 ...	15	9·64	1·176
,, 17304 ...	21	13·50	2·012	,, 17845 ...	20	12·86	1·827
,, 17321 ...	24	15·43	1·464	,, 17846 ...	50	32·14	1·892
,, 17323 ...	34	21·86	1·986	,, 17847 ...	23	14·78	1·529
,, 17333 ...	22	14·14	1·912	,, 17849 ...	47	30·21	1·419
,, 17338 ...	25	16·07	2·006	,, 17850 ...	30	19·29	1·545
,, 17343 ...	26	16·71	1·639	,, 17855 ...	31	19·93	1·882
,, 17344 ...	28	18·00	1·623	,, 17863 ...	34	21·86	1·831
,, 17347 ...	25	16·07	1·976	,, 17864 ...	28	18·00	1·996
,, 17365 ...	23	14·78	1·503	,, 17871 ...	30	19·29	1·682
,, 17368 ...	27	17·36	1·899	,, 17872 ...	31	19·93	1·354
,, 17369 ...	27	17·36	1·442	,, 17878 ...	27	17·36	1·801
,, 17380 ...	35	22·50	1·993	,, 17880 ...	18	11·57	1·724
,, 17384 ...	33	21·21	2·028	,, 17884 ...	20	12·86	1·277
,, 17394 ...	22	14·14	1·591	,, 17885 ...	44	28·29	1·351
,, 17443 ...	29	18·64	1·983	,, 17887 ...	38	24·43	1·759
,, 17460 ...	22	14·14	2·038	,, 17893 ...	29	18·64	2·025
,, 17461 ...	22	14·14	1·565	,, 17898 ...	30	19·29	1·594
,, 17465 ...	25	16·07	1·967	,, 17900 ...	30	19·29	2·009

TABLE XIV.—*Continued.* WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.
B. 17902 ...	36	23·14	1·290	B. 18186 ...	41	26·36	1·908
,, 17915 ...	35	22·50	1·675	,, 18191 ...	35	22·50	1·730
,, 17916 ...	25	16·07	1·954	,, 18192 ...	42	27·00	1·756
,, 17922 ...	30	19·29	1·636	,, 18197 ...	50	32·14	1·474
,, 17927 ...	30	19·29	1·471	,, 18208 ...	35	22·50	2·317
,, 17928 ...	26	16·71	1·571	,, 18214 ...	40	25·71	2·041
,, 17929 ..	36	23·14	1·396	,, 18216 ...	20	12·86	1·980
,, 17934 ...	36	23·14	1·594	,, 18219 ...	35	22·50	1·931
,, 17936 ...	45	28·93	1·769	,, 18239 ...	38	24·43	1·545
,, 17937 ...	45	28·93	1·908	,, 18252 ...	23	14·78	1·850
,, 17938 ...	40	25·71	1·947	,, 18258 ...	25	16·07	1·925
,, 17942 ...	31	19·93	1·581	,, 18262 ...	49	31·50	1·776
,, 17943 ...	24	15·43	1·737	,, 18272 ...	24	15·43	1·769
,, 17945 ...	25	16·07	1·925	,, 18273 ...	43	27·64	1·597
,, 17947 ...	25	16·07	1·533	,, 18276 ...	37	23·79	1·889
,, 17956 ...	25	16·07	1·834	,, 18294 ...	37	23·79	2·022
,, 17960 ...	34	21·86	1·756	,, 18298 ...	48	30·86	1·727
,, 17936 ...	25	16·07	1·925	,, 18300 ...	30	19·29	1·840
,, 17969 ...	16	10·29	1·960	,, 18307 ...	55	35·36	1·795
,, 17973 ...	43	27·64	1·682	,, 18308 ...	27	17·36	1·983
,, 17975 ...	26	16·71	2·002	,, 18309 ...	32	20·57	1·912
,, 17976 ...	28	18·00	1·669	,, 18310 ...	31	19·93	1·597
,, 17977 ...	28	18·00	1·811	,, 18319 ...	18	11·57	1·805
,, 17980 ...	35	22·50	1·999	,, 18323 ...	47	30·21	1·575
,, 17981 ...	36	23·14	1·892	,, 18324 ...	25	16·07	1·756
,, 17986 ...	35	22·50	2·041	,, 18330 ...	49	31·50	1·947
,, 17990 ...	35	22·50	1·763	,, 18332 ...	36	23·14	1·490
,, 17992 ...	36	23·14	2·070	,, 18340 ...	21	13·50	2·145
,, 17997 ...	37	23·79	1·636	,, 18342 ...	26	16·71	1·581
,, 18003 ...	40	25·71	1·941	,, 18349 ...	30	19·29	1·873
,, 18009 ...	49	31·50	1·886	,, 18353 ...	65	41·79	1·938
,, 18016 ...	29	18·64	1·555	,, 18360 ...	24	15·43	1·782
,, 18017 ...	30	19·29	1·387	,, 18361 ...	20	12·86	1·818
,, 18019 ...	45	28·93	1·558	,, 18369 ...	35	22·50	1·649
,, 18023 ...	27	17·36	2·080	,, 18371 ...	33	21·21	1·918
,, 18024 ...	26	16·71	2·119	,, 18373 ...	24	15·43	1·695
,, 18028 ...	27	17·36	2·087	,, 18378 ...	40	25·71	1·913
,, 18044 ...	20	12·86	2·025	,, 18379 ...	40	25·71	1·779
,, 18048 ...	25	16·07	1·750	,, 18384 ...	30	19·29	2·074
,, 18062 ...	43	27·64	2·031	,, 18385 ...	25	16·07	1·652
,, 18076 ...	58	37·29	1·704	,, 18399 ...	34	21·86	1·831
,, 18080 ...	27	17·36	2·255	,, 18403 ...	60	38·57	1·759
,, 18087 ...	27	17·36	1·711	,, 18404 ...	37	23·79	1·131
,, 18089 ...	30	19·29	2·009	,, 18407 ...	60	38·57	1·886
,, 18095 ...	65	41·79	2·171	,, 18409 ...	51	32·79	1·863
,, 18100 ...	26	16·71	2·145	,, 18417 ...	25	16·07	2·284
,, 18105 ...	50	32·14	1·675	,, 18420 ...	38	24·43	1·993
,, 18112 ...	27	17·36	1·744	,, 18425 ...	40	25·71	1·973
,, 18116 ...	25	16·07	2·193	,, 18432 ...	30	19·29	1·695
,, 18117 ...	65	41·79	1·555	,, 18433 ...	50	32·14	1·461
,, 18123 ...	29	18·64	1·782	,, 18437 ...	31	19·93	1·837
,, 18127 ...	60	38·57	2·168	,, 18445 ...	35	22·50	1·646
,, 18128 ...	31	19·93	2·151	,, 18449 ...	35	22·50	2·006
,, 18132 ...	44	28·29	1·950	,, 18450 ...	57	36·64	1·669
,, 18134 ...	40	25·71	1·753	,, 18451 ...	38	24·43	2·044
,, 18141 ...	41	26·36	1·976	,, 18456 ...	36	23·14	2·171
,, 18144 ...	18	11·57	1·941	,, 18457 ...	27	17·36	1·840
,, 18148 ...	31	19·93	1·419	,, 18459 ...	22	14·14	1·669
,, 18149 ...	30	19·29	2·112	,, 18463 ...	51	32·79	2·022
,, 18156 ...	39	25·07	1·630	,, 18465 ...	27	17·36	1·918
,, 18170 ...	29	18·64	2·041	,, 18472 ...	20	12·86	1·963

TABLE XIV.—*Continued.* WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.
B. 18476 ...	17	10·93	2·155	B. 18720 ...	26	16·71	2·002
„ 18479 ...	26	16·71	1·821	„ 18722 ...	25	16·07	1·633
„ 18480 ...	31	19·93	1·367	„ 18727 ...	19	12·21	1·996
„ 18481 ...	29	18·64	1·779	„ 18735 ...	31	19·93	2·135
„ 18484 ...	26	16·71	2·103	„ 18741 ...	24	15·43	2·190
„ 18495 ...	22	14·14	1·976	„ 18747 ...	25	16·07	1·422
„ 18501 ...	30	19·29	2·103	„ 18752 ...	26	16·71	2·080
„ 18509 ...	27	17·36	1·938	„ 18753 ...	20	12·86	1·662
„ 18510 ...	22	14·14	1·831	„ 18757 ...	27	17·36	1·643
„ 18511 ...	33	21·21	1·831	„ 18759 ...	24	15·43	1·967
„ 18514 ...	41	26·36	1·814	„ 18760 ...	24	15·43	2·064
„ 18518 ...	32	20·57	1·850	„ 18774 ...	30	19·29	2·057
„ 18519 ...	36	23·14	1·986	„ 18776 ...	37	23·79	2·019
„ 18523 ...	26	16·71	1·834	„ 18785 ...	25	16·07	2·015
„ 18529 ...	32	20·57	2·151	„ 18788 ...	32	20·57	1·902
„ 18537 ...	25	16·07	1·844	„ 18791 ...	25	16·07	1·576
„ 18538 ...	28	18·00	1·656	„ 18793 ...	32	20·57	1·682
„ 18541 ...	30	19·29	1·827	„ 18794 ...	32	20·57	2·213
„ 18545 ...	37	23·79	1·494	„ 18799 ...	29	18·64	2·106
„ 18554 ...	30	19·29	1·882	„ 18802 ...	21	13·50	1·869
„ 18557 ...	24	15·43	1·704	„ 18808 ...	26	16·71	1·788
„ 18560 ...	30	19·29	1·957	„ 18809 ...	32	20·57	2·012
„ 18561 ...	41	26·36	2·064	„ 18818 ...	20	12·86	1·941
„ 18563 ...	28	18·00	1·685	„ 18819 ...	29	18·64	1·944
„ 18564 ...	31	19·93	1·630	„ 18822 ...	44	28·39	1·980
„ 18565 ...	31	19·93	1·717	„ 18825 ...	26	16·71	2·044
„ 18567 ...	26	16·71	1·691	„ 18826 ...	21	13·50	1·955
„ 18569 ...	25	16·07	1·788	„ 18832 ...	28	18·00	1·895
„ 18570 ...	47	30·21	1·539	„ 18833 ...	37	23·79	2·087
„ 18572 ...	40	25·71	1·614	„ 18842 ...	25	16·07	2·226
„ 18573 ...	36	23·14	2·041	„ 18843 ...	33	21·21	2·064
„ 18575 ...	41	26·36	2·161	„ 18846 ...	30	19·29	1·921
„ 18576 ...	24	15·43	1·863	„ 18847 ...	24	15·43	2·125
„ 18577 ...	25	16·07	1·669	„ 18854 ...	24	15·43	1·769
„ 18590 ...	37	23·79	1·886	„ 18858 ...	34	21·86	1·886
„ 18591 ...	18	11·57	1·879	„ 18873 ...	53	34·07	2·151
„ 18592 ...	25	16·07	2·067	„ 18875 ...	24	15·43	1·639
„ 18593 ...	29	18·64	2·[illegible]53	„ 18876 ...	25	16·07	1·604
„ 18595 ...	50	32·14	1·957	„ 18878 ...	31	19·93	1·921
„ 18621 ...	27	17·36	2·171	„ 18882 ...	29	18·64	1·831
„ 18622 ...	28	18·00	1·720	„ 18889 ...	36	23·14	1·717
„ 18624 ...	27	17·36	1·824	„ 18905 ...	28	18·00	2·090
„ 18627 ...	31	19·93	1·750	„ 18907 ...	27	17·36	1·474
„ 18628 ...	45	28·93	1·908	„ 18908 ...	22	14·14	2·006
„ 18634 ...	35	22·50	2·019	„ 18919 ...	23	14·78	2·048
„ 18644 ...	25	16·07	1·925	„ 18943 ...	37	23·79	1·111
„ 18647 ...	41	27·36	1·818	„ 18955 ...	42	27·00	2·074
„ 18648 ...	32	20·57	2·048	„ 18956 ...	23	14·78	1·976
„ 18653 ...	21	13·50	2·151	„ 18959 ...	32	20·57	1·759
„ 18658 ...	25	16·07	1·860	„ 18961 ...	26	16·71	2·197
„ 18659 ...	28	18·00	1·772	„ 18969 ...	28	18·00	1·805
„ 18661 ...	26	16·71	2·326	„ 18970 ...	17	10·93	2·109
„ 18673 ...	29	18·64	2·187	„ 18973 ...	29	18·64	2·313
„ 18681 ...	27	17·36	1·744	„ 18987 ...	27	17·36	2·006
„ 18685 ...	30	19·29	2·009	„ 18996 ...	35	22·50	1·928
„ 18702 ...	29	18·64	1·724	„ 18997 ...	32	20·57	2·019
„ 18703 ...	30	19·29	2·051	„ 19011 ...	22	14·14	2·119
„ 18708 ...	23	14·78	2·138	„ 19012 ...	38	24·43	1·588
„ 18710 ...	35	22·50	1·542	„ 19015 ...	31	19·93	1·782
„ 18712 ...	25	16·07	1·844	„ 19031 ...	18	11·57	1·918
„ 18716 ...	23	14·78	1·857	„ 19033 ...	25	16·07	2·009

TABLE XIV.—*Continued.* WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose. lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose. lb. per gallon.
B. 19041 ...	34	21·86	1·098	B. 19358 ...	45	28·93	2·051
„ 19042 ...	36	23·14	1·782	„ 19359 ...	45	28·93	2·245
„ 19045 ...	32	20·57	1·980	„ 19360 ...	40	25·71	1·769
„ 19053 ...	22	14·14	1·960	„ 19362 ...	36	23·14	1·549
„ 19054 ...	36	23·14	2·112	„ 19365 ...	30	19·29	1·954
„ 19055 ...	23	14·78	2·080	„ 19366 ...	25	16·07	1·837
„ 19078 ...	38	24·43	1·782	„ 19373 ...	20	12·86	2·087
„ 19080 ...	37	23·79	2·096	„ 19374 ...	25	16·07	1·814
„ 19085 ...	25	16·07	2·109	„ 19380 ...	22	14·14	1·578
„ 19094 ...	25	16·07	2·138	„ 19386 ...	25	16·07	2·002
„ 19097 ...	42	27·00	1·831	„ 19387 ...	35	22·50	1·960
„ 19099 ...	32	20·57	2·243	„ 19388 ...	33	21·21	2·106
„ 19101 ...	43	27·64	1·996	„ 19389 ...	22	14·14	1·766
„ 19107 ...	34	21·86	2·109	„ 19390 ...	26	16·71	1·905
„ 19109 ...	35	22·50	2·064	„ 19394 ...	21	13·50	1·879
„ 19121 ...	26	16·71	2·336	„ 19396 ...	23	14·78	1·685
„ 19125 ...	29	18·64	1·717	„ 19402 ...	20	12·86	1·672
„ 19133 ...	35	22·50	1·698	„ 19404 ...	27	17·36	2·112
„ 19135 ...	31	19·93	1·928	„ 19409 ...	31	19·93	1·503
„ 19136 ..	30	19·29	1·439	„ 19411 ...	20	12·86	1·614
„ 19159 ...	40	25·71	1·905	„ 19414 ...	31	19·93	2·313
„ 19160 ...	35	22·50	1·895	„ 19419 ...	26	16·71	2·197
„ 19162 ...	32	20·57	1·918	„ 19423 ...	32	20·57	1·737
„ 19179 ...	33	21·21	1·892	„ 19426 ...	27	17·36	2·142
„ 19180 ...	30	19·29	2·087	„ 19436 ...	25	16·07	1·863
„ 19184 ...	39	25·07	1·899	„ 19439 ...	23	14·78	1·866
„ 19188 ...	28	18·00	1·850	„ 19444 ...	37	23·79	2·090
„ 19189 ...	45	28·93	1·607	„ 19445 ...	29	18·64	1·442
„ 19192 ...	24	15·43	1·354	„ 19446 ...	28	18·00	1·792
„ 19206 ...	24	15·43	1·811	„ 19450 ...	38	24·43	2·009
„ 19208 ...	31	19·93	2·057	„ 19451 ...	28	18·00	2·109
„ 19211 ..	30	19·29	2·025	„ 19452 ...	51	32·79	1·555
„ 19213 ...	33	21·21	2·074	„ 19461 ...	29	18·64	2·112
„ 19216 ...	30	19·29	2·372	„ 19465 ...	21	13·50	1·947
„ 19218 ...	40	25·71	2·015	„ 19466 ...	38	24·43	1·685
„ 19222 ...	30	22·86	2·122	„ 19468 ...	35	22·50	1·814
„ 19229 ...	24	15·43	1·840	„ 19470 ...	38	24·43	1·866
„ 19230 ...	20	12·86	2·019	„ 19489 ...	23	14·78	2·031
„ 19235 ...	17	10·93	1·607	„ 19496 ...	25	16·07	1·938
„ 19237 ...	30	19·29	2·249	„ 19499 ...	46	29·57	1·892
„ 19246 ...	31	19·93	2·181	„ 19501 ...	34	21·96	2·151
„ 19254 ...	24	15·43	1·542	„ 19506 ...	23	14·78	2·041
„ 19262 ...	30	19·29	2·368	„ 19509 ...	22	14·14	1·944
„ 19274 ...	30	19·29	1·413	„ 19517 ...	29	18·64	1·827
„ 19275 ...	28	18·00	1·558	„ 19519 ...	35	22·50	1·915
„ 19277 ...	32	20·57	1·701	„ 19523 ...	17	10·93	1·685
„ 19298 ...	37	23·79	2·333	„ 19526 ...	23	14·78	1·956
„ 19300 ...	32	20·57	1·993	„ 19527 *a.* ...	20	12·86	1·847
„ 19301 ...	33	21·21	1·931	„ 19527 *b.* ...	23	14·78	2·019
„ 19305 ...	23	14·78	1·899	„ 19528 ...	25	16·07	2·041
„ 19306 ...	17	10·93	1·879	„ 19530 ...	20	12·86	1·873
„ 19317 ...	16	10·29	2·019	„ 19551 ...	27	17·36	1·963
„ 19323 ...	28	18·00	2·009	„ 19552 ...	32	20·57	1·510
„ 19330 ...	29	18·64	2·210	„ 19555 ...	27	17·36	1·549
„ 19335 ...	20	12·86	2·168	„ 19556 ...	26	16·71	1·824
„ 19338 ...	23	14·78	1·886	„ 19569 ...	14	9·00	1·970
„ 19341 ...	24	15·43	2·278	„ 19577 ...	19	12·21	2·249
„ 19346 ...	17	10·93	2·057	„ 19578 ...	37	23·79	1·597
„ 19351 ...	26	16·71	1·649	„ 19580 ...	34	21·86	1·429
„ 19354 ...	21	13·50	2·151	„ 19581 ...	31	19·93	1·581
„ 19356 ...	32	20·57	2·025	„ 19582 ...	24	15·43	1·847

TABLE XIV.—*Concluded.* WATERFORD PLANTATION.—FOASTER FIELD.

1st Year Seedlings.

Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.	Number of Seedling.	Lb. Canes per hole.	Tons Canes per acre.	Saccharose lb. per gallon.
B. 19583 ...	31	19·93	1·869	B. 20140 ...	27	17·36	1·957
,, 19585 ...	22	14·14	1·818	,, 20227 ...	34	21·86	2·255
,, 19590 ...	30	19·29	2·313	,, 20231 ...	32	20·57	1·322
,, 19593 ...	27	17·36	1·934	,, 20236 ...	28	18·00	2·109
,, 19605 ...	33	21·21	2·129	,, 20249 ...	25	16·07	2·083
,, 19606 ...	64	41·14	1·776	,, 20252 ...	48	30·86	1·614
,, 19609 ..	30	19·29	1·814	,, 20257 ...	25	16·07	1·892
,, 19613 ...	39	25·07	1·850	,, 20286 ...	22	14·14	1·908
,, 19616 ...	23	14·78	2·009	,, 20293 ...	20	12·86	1·902
,, 19617 ...	23	14·78	2·158	,, 20338 ...	18	11·57	2·181
,, 19620 ...	20	12·86	2·158	,, 20361 ...	21	13·50	1·963
,, 19622 ...	27	17·36	1·963	,, 20369 ...	32	20·57	1·571
,, 19631 ...	21	13·50	1·571	,, 20371 ...	25	16·07	1·938
,, 19636 ...	39	25·07	1·824	,, 20372 ...	18	11·57	1·934
,, 19673 ...	26	16·71	1·805	,, 20373 ...	19	12·21	1·733
,, 19677 ...	30	19·29	1·750	,, 20376 ...	17	10·93	2·184
,, 19716 ...	35	22·50	1·808	,, 20378 ...	19	12·21	2·051
,, 19718 ...	24	15·43	1·879	,, 20383 ...	35	22·50	1·756
,, 19740 ...	38	24·43	2·109	,, 20409 ...	28	18·00	1·633
,, 19743 ...	50	32·14	1·740	,, 20417 ...	26	16·71	2·109
,, 19768 ...	35	22·50	1·691	,, 20418 ...	22	14·14	1·818
,, 19770 ...	41	27·36	1·905	,, 20447 ...	16	10·29	1·866
,, 19857 ...	53	34·07	1·707	,, 20457 ...	20	12·86	1·675
,, 19859 ...	40	25·71	1·821	,, 20458 ...	30	19·29	2·080
,, 19877 ...	39	25·07	1·740	,, 20470 ...	19	12·21	2·090
,, 19908 ...	50	32·14	1·892	,, 20478 ...	20	12·86	1·986
,, 19935 ...	51	32·79	2·078	,, 20479 ...	23	14·78	2·177
,, 19957 ...	29	18·64	1·769	,, 20488 ...	25	16·07	1·850
,, 19982 ...	22	14·14	1·678	,, 20545 ...	17	10·93	1·646
,, 19986 ...	37	23·79	1·912	,, 20562 ...	34	21·86	1·954
,, 20039 ...	28	18·00	1·711	,, 20599 ...	25	16·07	1·740
,, 20076 ...	30	19·29	1·500	,, 20617 ...	23	14·78	1·730
,, 20089 ...	23	14·78	1·526	,, 20624 ...	29	18·64	1·853
,, 20117 ...	29	18·64	2·025				

TABLE. XV. BRIGHTON PLANTATION.—RABBIT PEN FIELD.

VARIETIES.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per gallon.			Quotient of Purity.	Glucose Ratio.		
							Saccharose.	Glucose.	Solids not sugar.				
White Transparent	14,307	17·64	4·10	...	54·50	1·0861	2·135	·051	·159	91·01	2·44	1,982	4,232
B. 376	15,807	20·25	3·92	3·24	53·50	1·0839	2·087	·056	·144	91·25	2·68	2,239	4,673
Rappoe	17,066	19·54	4·55	·74	54·50	1·0875	2·210	·044	·128	92·78	1·99	2,192	4,844

TABLE XVI. BRIGHTON PLANTATION.—LONG POND FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
White Transparent	13,511	16·96	4·01	2·33	55·50	1·0888	2·177	·060	·180	90·07	2·76	1,936	4,215
B. 376	13,067	17·39	3·43	3·86	55·50	1·0879	2·171	·061	·161	90·72	2·81	1,988	4,316
B. 1030	15,620	8·99	3·14	...	48·00	1·0897	2·161	·061	·219	88·53	2·82	887	1,917
B. 1355	13,713	16·92	5·27	...	58·50	1·0875	2·206	·033	·143	92·61	1·50	2,039	4,498
B. 1376	13,205	15·66	3·03	1·57	55·00	1·0902	2·258	·037	·158	92·05	1·64	1,770	3,997
B. 1528	17,181	18·65	3·74	1·16	57·00	1·0915	2·271	·074	·144	91·24	3·26	2,182	4,955
B. 1529	16,011	10·24	3·22	...	57·50	1·0997	2·530	·030	·145	93·53	1·19	1,200	3,036
B. 1753	20,851	23·60	3·67	...	52·50	1·0839	1·960	·119	·208	85·70	6·07	2,561	5,020
B. 3209	13,914	18·99	2·88	1·71	56·00	1·0879	2·197	·046	·150	91·81	2·09	2,190	4,811
B. 3289	11,516	16·98	2·90	2·28	54·00	1·0831	2·051	·052	·160	90·63	2·54	1,896	3,889
B. 3696	17,019	26·29	4·34	...	60·00	1·0870	2·171	·050	·149	91·60	2·30	3,250	7,056
B. 6048	16,495	22·72	4·14	...	58·00	1·0857	1·963	·132	·239	84·10	6·72	2,719	5,337
Burke	15,043	18·18	4·79	2·36	57·00	1·0857	2·061	·109	·164	88·30	5·29	2,139	4,408
Rappoe	12,422	18·96	3·44	·96	55·50	1·0906	2·278	·042	·145	92·41	1·84	2,161	4,923

SELECTED VARIETIES.

TABLE XVII. CLIFTON PLANTATION.—SIX ACRE PARISH FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent ... ... Series i...	13,646	22·79	6·40	5·24	60·00	1·0831	2·109	·032	·122	93·19	1·52	2,828	5,964
" ... ... " ii...	17,201	26·60	6·77	2·47	59·50	1·0839	2·109	·048	·130	92·22	2·28	3,271	6,899
mean...	...	24·70	...	...	...	...	...	...	...	92·71	...	...	6,432
B. 208 ... ... Series i...	18,524	27·01	8·55	7·27	59·50	1·0888	2·265	·032	·120	93·71	1·41	3,307	7,490
" ... ... " ii...	15,272	22·11	6·40	20·30	59·50	1·0893	2·252	·046	·131	92·71	2·04	2,706	6,094
mean...	...	24·56	...	...	...	...	...	...	...	93·21	...	...	6,792
B. 1030 ... ... Series i...	19,570	18·98	6·12	...	55·00	1·0866	2·158	·021	·179	91·52	·97	2,152	4,644
" ... ... " ii...	17,308	16·96	4·41	...	58·00	1·0861	2·158	·039	·149	91·99	1·81	2,029	4,379
mean...	...	17·97	...	...	...	...	...	...	...	91·76	...	...	4,512
B. 1566 ... ... Series i...	12,775	32·04	7·60	...	60·00	1·0826	2·109	·031	·112	93·65	1·47	3,978	8,390
" ... ... " ii...	12,510	29·62	6·72	...	60.00	1·0853	2·197	·029	·097	94·58	1·32	3,668	8,059
mean...	...	30·83	...	...	...	...	..	...	...	94·12	...	...	8,225
B. 1753 ... ... Series i...	24,447	34·66	6·27	1·17	58·00	1·0787	1·886	·081	·180	87·84	4·29	4.175	7,874
" ... ... " ii...	23,170	37·20	4·77	...	56·00	1·0791	1·918	·078	·162	88·89	4·07	4,324	8,293
mean...	...	35·93	...	...	...	...	...	...	...	88·37	...	...	8,084
B. 3209 ... ... Series i...	14,806	23·16	5·39	1·25	61·00	1·0861	2·187	·036	·123	93·22	1·65	2,914	6,373
" ... ... " ii...	15,098	27·14	6·84	9·09	61·00	1·0848	2·116	·068	·127	91·56	3·21	3,419	7,235
mean...	...	25·15	...	...	...	...	...	...	...	92·39	...	...	6,804

SELECTED VARIETIES.

TABLE XVII.—*Concluded.* CLIFTON PLANTATION.—SIX ACRE PARISH FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 3390 ... ... Series i ..	21,602	30·28	7·93	·80	57·50	1·0804	1·938	·083	·172	88·37	4·28	3,610	6,996
" ... ... " ii...	23,634	38·21	8·30	4·24	58·00	1·0804	1·928	·100	·165	87·92	5·19	4,595	8,859
mean...	...	34·25	...	...	...	...	...	...	...	88·15	...	...	7,928
B. 3405 ... ... Series i...	22,299	35·59	9·15	·78	62·00	1·0804	1·925	·096	·172	87·78	4·99	4,575	8,807
" ... ... " ii...	23,286	39·27	7·98	4·07	62·00	1·0738	1·756	·100	·163	86·97	5·69	5,080	8,920
mean...	...	37·43	...	...	...	...	...	...	...	87·38	...	...	8,864
B. 3412 ... . Series i...	23,112	39·17	8·17	2·45	61·00	1·0782	1·857	·096	·182	86·98	5·17	4,964	9,218
" ... ... " ii...	22,647	38·42	7·00	6·02	62·00	1·0743	1·824	·089	·117	89·85	4·88	4.967	9,060
mean...	...	38·80	...	...	...	...	...	...	...	88·42	...	...	9,139
B. 3696 ... ... Series i...	19,628	26·70	6·43	2·87	60·50	1·0756	1·821	·104	·140	88·18	5·71	3,364	6,126
" ... ... " ii...	19,832	33·38	5·32	5·73	63·00	1·0773	1·889	·093	·130	89·44	4·92	4,373	8,261
mean...	...	30·04	...	...	...	...	...	...	...	88·81	...	...	7,194
B. 3708 ... ... Series i...	17,769	26·60	8·24	3·16	62·00	1·0787	1·960	·046	·141	91·29	3·35	3,424	6,711
" ... ... " ii...	17,595	27·97	6·22	6·19	62·50	1·0760	1·827	·086	·164	87·96	4·70	3,639	6,648
mean...	...	27·29	...	...	...	...	...	...	...	89·63	...	...	6,680
B. 4596 ... ... Series i...	18,524	26·08	8·24	·31	62·00	1·0782	1·879	·078	1·78	88·01	4·15	3,359	6,312
" ... ... " ii...	18,002	31·91	6·77	5·49	62·00	1·0703	1·643	·132	1·52	85·26	8·03	4,141	6,804
mean...	...	29·00	...	...	...	...	...	...	...	86·64	...	...	6,558

SELECTED VARIETIES.

TABLE XVIII. CLIFTON HALL PLANTATION.—CLAY PIT FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent ... ... Series i...	17,189	31·37	6·45	14·69	56·00	1·0866	2·122	·066	·170	89·99	3·11	3,621	7,684
" ... ... " ii...	14,982	27·61	6·22	25·65	55·50	1·0826	2·054	·061	·137	91·21	2·97	3,170	6,511
mean...	...	29·49	...	...	...	...	...	...	...	90·60	...	...	7,098
B. 208 ... ... Series i...	12,253	26·03	6·35	34·27	58·00	1·0933	2·333	·048	·155	92·00	2·06	3,201	7,468
" ... ... " ii	12,311	21·15	6·43	19·08	58·00	1·0875	2·226	·034	·122	93·45	1·53	2,527	5,625
mean...	...	24·04	...	...	...	...	...	...	...	92·73	...	...	6,547
B. 376 ... ... Series i...	14,343	34·35	7·03	18·75	56·00	1·0817	2·051	·047	·130	92·06	2·29	3,983	8,169
" ... ... " ii...	14,459	30·02	7·28	30·64	57·00	1·0729	1·772	·083	·140	88·82	4·68	3,573	6,331
mean...	...	32·19	...	...	...	...	...	...	...	90·44	...	...	7,250
B. 1386 ... ... Series i...	18,408	32·43	6·58	16·58	58·16	1·0884	2·151	·074	·180	89·44	3·44	3,882	8,350
" ... ... " ii...	19,279	29·50	7·05	24·55	54·00	1·0835	2·106	·063	·106	92·58	2·99	3,294	6,937
mean...	...	30·97	...	...	...	...	...	...	...	91·01	.	...	7,644
B. 1521 ... ... Series i...	15,679	32·69	5·88	13·74	58·50	1·0920	2·232	·086	·183	89·24	3·85	3,923	8,756
" ... ... " ii...	13,472	25·28	5·63	14·71	63·75	1·0888	2·184	·093	·140	90·36	4·26	3,315	7,240
mean...	...	28·99	...	...	...	...	...	...	...	89·80	...	...	7,998
B. 1529 ... ... Series i...	19,570	30·15	6·09	21·08	54·25	1·0974	2·482	·034	·129	93·84	1·37	3,339	8,287
" ... ... " ii...	19,744	31·42	7·36	9·09	63·00	1·0969	2·560	·012	·060	97·26	·47	4,042	10,348
mean...	...	30·79	...	...	...	...	...	...	...	95·55	...	...	9,318

SELECTED VARIETIES.

TABLE XVIII.—*Concluded.* CLIFTON HALL PLANTATION.—CLAY PIT FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in Tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 1566 ... ... Series i...	13,124	42·80	10·37	19·86	58·00	1·0822	2·057	·046	·137	91·83	2·24	5,138	10,569
" ... ... " ii...	12,137	38·94	8·81	19·62	52·50	1·0866	2·223	·045	·090	94·27	2·02	4,214	9,368
mean...	...	40·87	...	...	...	...	...	...	...	93·05	...	...	9,969
B. 1753 ... ... Series i...	25,493	44·69	5·55	9·49	52·00	1·0817	1·970	·068	·190	88·42	3·54	4,813	9,482
" ... ... " ii...	24,912	43·84	4·54	5·71	56·50	1·0813	1·996	·078	·143	90·03	3·91	5,131	10,241
mean...	...	44·27	...	...	...	...	...	...	...	89·23	...	...	9,862
B. 3289	14,924	29·58	6·20	12·29	57·00	1·0822	1·892	·041	·307	84·46	2·17	3,490	6,603
B. 3390 ... ... Series i...	25,319	47·52	8·92	9·17	57·25	1·0839	2·090	·053	·144	91·39	2·53	5,622	11,750
" ... ... " ii...	22,183	44·64	7·08	7·06	55·00	1·0839	2·077	·061	·149	90·82	2·94	5,074	10,539
mean...	...	46·08	...	...	...	...	...	...	...	91·11	...	...	11,145
B. 3405 ... ... Series i...	23,925	52·13	7·41	8·44	59·00	1·0861	2·096	·086	·164	89·34	4·10	6,344	13,297
" ... ... " ii...	22,183	51·09	7·44	7·28	55·75	1·0844	2·064	·089	·146	89·78	4·31	5,884	12,145
mean...	...	51·61	...	...	...	...	...	...	...	89·56	...	...	12,721
B. 3412 ... ... Series i...	20,847	45·11	5·08	10·92	52·00	1·0835	1·996	·109	·170	87·74	5·46	4,849	9,679
" ... ... " ii...	21,196	45·63	6·95	15·70	55·50	1·0817	1·983	·100	·145	89·00	5·04	5,244	10,399
mean...	...	45·37	...	...	...	...	...	...	...	88·37	...	...	10,039
D. 95	20,837	35·95	11·99	23·77	52·50	1·0857	2·216	·025	·093	94·94	1·13	3,894	8,629

TABLE XIX. CLIFTON HALL PLANTATION.—GOAT FIELD.

VARIETIES.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	15,795	12·73	3·89	6·53	56·00	1·0875	2·206	·042	·134	92·61	1·90	1,468	3,238
B. 3390	22,647	27·69	8·09	5·11	56·75	1·0839	2·067	·052	·168	90·38	2·52	3,247	6,712
B. 3405	28,803	30·56	7·49	11·43	59·75	1·0813	1·928	·109	·180	86·96	5·65	3,783	7,294
B. 3412	33,708	39·11	10·11	5·38	58·75	1·0844	2·057	·114	·128	89·47	5·54	4,747	9,765

VARIETIES.

TABLE XX. CLIFTON HALL PLANTATION.—STILL POND FIELD.

2nd Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	16,318	21·13	4·26	11·91	59·25	1·0839	2·129	·039	·119	93·09	1·83	2,587	5,508
B. 3390	37,569	38·43	9·66	3·21	56·00	1·0800	2·019	·069	·094	92·53	3·42	4,465	9,015
B. 3405	20,963	20·84	4·93	26·77	58·00	1·0795	1·892	·104	·174	87·19	5·50	2,508	4,745
B. 3412	24,041	20·14	4·54	8·61	58·50	1·0791	1·921	·100	·137	89·02	5·21	2,446	4,699

TABLE XXI. COVERLY PLANTATION.—MITTIE FIELD.

SELECTED VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre. Canes.	Weight in tons per acre. Cane Tops.	Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Normal Juice. Lb. per Gallon. Saccharose.	Normal Juice. Lb. per Gallon. Glucose.	Normal Juice. Lb. per Gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio	Gallons of Juice per acre.	Saccharose lb. per acre.
White Transparent ... ... Series i...	14,212	34·35	5·51	10·98	60·00	1·0848	2·100	·066	·145	90·87	3·14	4,256	8,938
" ... ... " ii...	14,016	35·36	4·71	5·50	59·00	1·0857	2·161	·054	·119	92·59	2·50	4,304	9,301
mean...	...	34·86	...	...	...	...	...	...	...	91·73	...	...	9,120
B. 376 ... ... Series i...	14,352	31·33	4·54	9·94	59·00	1·0795	1·960	·069	·141	90·32	3·52	3,835	7,517
" ... ... " ii...	14,928	35·87	5·89	4·31	60·00	1·0826	2·100	·039	·113	93·25	1·86	4,453	9,351
mean...	...	33·60	...	...	...	...	...	...	...	91·79	...	...	8,434
B. 1030 ... ... Series i...	19,536	35·62	3·30	3·78	60·21	1·0769	1·824	·132	·144	86·86	7·24	4,460	8,135
" ... ... " ii...	19,248	32·15	4·37	...	58·00	1·0791	1·879	·086	·193	87·07	4·58	3,870	7,272
mean...	...	33·89	...	...	...	...	...	...	...	86·97	...	...	7,704
B. 1529 ... ... Series i...	21,942	30·03	3·34	...	62·50	1·0906	2·236	·056	·173	90·71	2·50	3,855	8,620
" ... ... " ii...	21,140	31·76	4·62	...	59·00	1·0924	2·317	·047	·148	92·24	2·03	3,842	8,902
mean...	...	30·90	...	...	...	...	...	...	...	91·48	...	...	8,761
B. 1753 ... ... Series i...	19,776	43·20	5·57	6·58	59·25	1·0756	1·772	·125	·168	85·81	7·05	5,331	9,446
" ... ... " ii...	19,584	42·32	5·36	·97	57·00	1·0791	1·863	·078	·217	86·33	4·19	5,008	9,330
mean...	...	42·76	...	...	...	...	...	...	...	86·07	...	...	9,388
B. 3635 ... ... Series i...	15,840	27·86	6·43	...	60·75	1·0857	2·158	·047	·129	92·46	2·18	3,492	7,536
" ... ... " ii...	14,976	24·82	5·25	·95	60·00	1·0861	2·158	·048	·140	91·99	2·22	3,071	6,627
mean...	...	26·34	...	...	...	...	...	...	...	92·23	...	...	7,082

SELECTED VARIETIES.

TABLE XXI.—*Concluded.* COVERLY PLANTATION.—MITTIE FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{15·6°C.}$	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 3696 ... ... Series i...	17,280	36·73	3·92	...	63·75	1·0787	1·944	·066	·137	90·54	3·40	4,863	9,454
" ... . " ii...	20,040	35·36	4·45	1·76	61·00	1·0809	1·983	·083	·139	89·93	4·19	4,470	8,864
mean...	...	36·05	...	...	...	...	...	...	...	90·24	...	...	9,159
B. 3729 ... ... Series i...	12,528	20·62	2·57	30·23	62·50	1·0721	1·759	·069	·145	89·15	3·92	2,692	4,735
" ... ... " ii...	14,898	20·13	4·23	16·43	61·00	1·0743	1·857	·058	·115	91·48	3·12	2,560	4,754
mean...	...	20·38	...	...	...	...	...	...	...	90·32	...	...	4,745
B. 5102 ... ... Series i...	15,792	32·75	6·15	5·73	64·00	1·0756	1·769	·119	·177	85·67	6·73	4,364	7,720
" ... ... " ii...	20,880	31·42	6·21	4·40	62·00	1·0778	1·892	·083	·148	89·12	4·39	4,048	7,659
mean...	...	32·09	...	...	...	..	...	...	...	87·90	...	...	7,690

VARIETIES.

TABLE XXII. HAMPTON PLANTATION.—LOWER NORTH NAT VALLEY FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not Sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	12,632	24·89	3·52	12·71	57·00	1·0848	1·976	·119	·216	85·50	6·02	2,930	5,790
B. 208	17,085	28·95	6·11	9·26	57·50	1·0929	2·300	·053	·171	91·13	2·30	3,412	7,848
B. 1030	18,876	22·95	3·80	·76	51·50	1·0857	1·986	·096	·252	85·09	4·83	2,438	4,842
B. 1462	15,246	22·02	3·20	11·02	58·00	1·0861	2·041	·086	·219	87·00	4·21	2,634	5,376
B. 1529	22,942	23·44	3·72	5·20	61·00	1·0960	2·398	·036	·174	91·95	1·50	2,923	7,009
B. 1753	20,134	29·34	2·55	4·37	56·50	1·0822	1·905	·083	·252	85·04	4·36	3,432	6,538
B. 3207	12,680	20·40	2·38	9·66	60·50	1·0822	1·944	·100	·196	86·79	5·14	2,554	4,965

VARIETIES.

TABLE XXIII. HANNAYS PLANTATION.—UPPER CUT HILL FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Lb. per gallon. Glucose.	Lb. per gallon. Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	10,405	12·78	2·70	1·90	56·00	1·0831	2·064	·051	·148	91·21	2·47	1,480	3,055
B. 208	11,131	13·65	3·31	1·43	56·00	1·0879	2·161	·076	·156	90·31	3·52	1,574	3,401
D. 95	11,373	13·56	3·15	...	59·00	1·0870	2·158	·050	·162	91·05	2·32	1,647	3,554
B. 1753	32,304	28·66	5·15	·99	52·50	1·0804	1·860	·114	·219	84·82	6·13	3,120	5,801
B. 2550	12,825	9·90	2·30	3·93	55·50	1·0791	1·944	·035	·179	90·08	1·80	1,140	2,216
B. 2652	14,478	16·65	3·78	1·64	61·00	1·0721	1·610	·119	·244	81·16	7·39	2,123	3,418
B. 2938	8,832	10·37	2·25	25·76	53·00	1·0756	1·801	·068	·196	87·22	3·78	1,145	2,062
B. 2942	12,664	15·93	3·01	2·49	56·00	1·0791	1·925	·049	·184	89·20	2·55	1,852	3,565
B. 6450	13,633	12·96	2·99	...	60·00	1·0848	2·087	·057	·167	90·31	2·73	1,606	3,352
Burke	11,696	18·94	4·29	7·35	61·00	1·0769	1·805	·114	·181	85·95	6·32	2,403	4,337

TABLE XXIV. HANNAYS PLANTATION.—WATER MILL FIELD.

VARIETIES.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per Gallon. Saccharose.	Lb. per Gallon. Glucose.	Lb. per Gallon. Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	9,728	4·97	3·07	2·90	50·50	1·0826	2·090	·028	·134	92·81	1·34	519	1,085
D. 95	11,575	8·28	3·92	1·37	56·00	1·0879	2·236	·020	·137	93·44	·89	955	2,135
B. 208	8,792	5·55	3·10	...	55·00	1·0888	2·232	·035	·150	92·35	1·57	627	1,399
B. 2550	1,290	·99	3·42	...	54·31	1·0809	2·031	·093	·081	92·11	4·58	111	225
Burke	13,309	9·16	4·54	·60	59·00	1·0778	1·908	·060	·155	89·87	3·14	1,124	2,145

SELECTED VARIETIES.

TABLE XXV. HENLEY PLANTATION.—GOLDEN FIELD.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre. Canes.	Weight in tons per acre. Cane Tops.	Per cent. by number of rotten Canes.	Per cent. of juice by mill.	Normal Juice. Sp. Gr. 16·6°C./30°C.	Normal Juice. Lb. per gallon. Saccharose.	Normal Juice. Lb. per gallon. Glucose.	Normal Juice. Lb. per gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio.	Gallons of Juice per acre.	Saccharose lb. per acre.
White Transparent ... ... Series i...	16,724	21·26	4·15	2·70	53·75	1·0857	2·145	·132	·057	91·90	6·15	2,357	5,056
" ... ... " ii...	17,595	24·58	4·54	1·30	57·50	1·0870	2·203	·046	·121	92·95	2·09	2,912	6,415
mean...	...	22·92	...	...	...	...	...	...	...	92·43	...	...	5,736
B. 208 ... ... Series i...	21,079	22·63	4·61	3·97	57·00	1·0942	2·398	·066	·096	93·67	2·75	2,641	6,333
" ... ... " ii...	17,131	17·16	4·90	4·22	59·00	1·0947	2·407	·045	·120	93·58	1·87	2,072	4,987
mean...	...	19·90	...	...	...	...	...	...	...	93·63	...	...	5,660
B. 376 ... ... Series i...	19,105	26·62	4·72	2·66	58·25	1·0844	2·119	·040	·140	92·17	1·89	3,204	6,789
" ... ... " ii...	17,073	24·86	3·45	2·97	57·50	1·0857	2·164	·047	·120	92·84	2·17	2,949	6,382
mean...	...	25·74	...	...	...	...	...	...	...	92·51	...	...	6,586
B. 1529 ... ... Series i...	14,285	6·64	2·31	...	53·50	1·0987	2·527	·022	·132	94·26	·87	724	1,830
" ... ... " ii...	17,424	10·82	2·92	...	55·00	1·0983	2·527	·093	·049	94·68	3·68	1,214	3,068
mean...	...	8·73	...	...	...	...	...	...	...	94·47	...	...	2,449
B. 1566 ... ... Series i...	16,027	27·09	5·73	·72	52·50	1·0826	2·041	·057	·154	90·63	2·79	2,943	6,006
" ... ... " ii...	15,272	27·79	4·72	·75	56·50	1·0888	2·249	·054	·114	93·05	2·40	3,230	7,284
mean...	...	27·44	...	...	...	...	...	...	...	91·84	...	...	6,645
B. 3731	22,299	24·37	4·56	4·24	59·50	1·0942	2·430	·031	·099	94·92	1·28	2,968	7,212
B. 4086	12,542	6·30	2·10	...	49·50	1·0857	2·135	·029	·170	91·47	1·36	643	1,373
B. 5066	10,234	7·19	2·24	14·55	50·00	1·0791	1·863	·089	·206	86·33	4·78	746	1,390

TABLE XXV.—*Concluded.* HENLEY PLANTATION.—GOLDEN FIELD.

SELECTED VARIETIES.

1st Ratoons.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 5157	18,815	24·76	5·21	...	56·50	1·0795	1·889	·104	·177	87·05	5·51	2,903	5,484
D. 95 ... ... Series i...	25,551	28·18	6·12	1·35	56·25	1·0902	2·297	·032	·124	93·64	1·39	3,257	7,481
" ... ... „ ii...	25,725	28·39	5·60	...	55·50	1·0929	2·385	·036	·103	94·49	1·51	3,229	7,701
mean...	...	28·29	...	...	...	...	...	...	...	94·07	...	...	7,591

TABLE XXVI. HENLEY PLANTATION.—N. W. SWAMP FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.		Number of Canes per acre.	Weight in tons per acre. Canes.	Weight in tons per acre. Cane Tops.	Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Normal Juice. Lb. per gallon. Saccharose.	Normal Juice. Lb. per gallon. Glucose.	Normal Juice. Lb. per gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio.	Gallons of Juice per acre.	Saccharose lb. per acre.
White Transparent	Series i...	13,126	17·97	2·69	3·21	55·50	1·0888	2·249	·026	·142	93·05	1·16	2,052	4,615
"	" ii...	14,111	15·68	3·01	...	57·00	1·0924	2·381	·039	·092	94·79	1·64	1,833	4,364
	mean...	...	16·83	...	...	...	...	...	...	...	93·92	...	...	4,490
B. 208	Series i...	17,421	21·78	4·85	3·85	59·00	1·0938	2·388	·039	·121	93·72	1·63	2,631	6,283
"	" ii...	17,421	19·03	3·99	·99	58·50	1·0960	2·417	·051	·140	92·68	2·11	2,275	5,499
	mean...	...	20·41	...	...	...	...	...	...	...	93·20	...	...	5,891
B. 376	Series i...	15,679	24·89	3·99	...	54·75	1·0920	2·346	·017	·138	93·80	·72	2,795	6,557
"	" ii...	15,040	17·71	3·86	...	55·00	1·0902	2·317	·014	·122	94·46	·60	2,001	4,636
	mean...	...	21·30	...	...	...	...	...	...	...	94·13	...	...	5,597
B. 1529	Series i...	18,699	13·48	3·37	·62	56·00	1·1001	2·537	·030	·150	93·38	1·18	1,537	3,899
"	" ii...	20,325	17·63	3·86	2·78	55·00	1·0978	2·488	·027	·142	93·64	1·09	1,978	4,921
	mean...	...	15·56	...	...	...	...	...	...	...	93·51	.	...	4,410
B. 1566 ... ... - ...	Series i...	13,066	24·96	5·47	..	54·75	1·0897	2·317	·014	·110	94·92	·60	2,810	6,511
"	" ii...	14,343	27·79	5·13	...	58·50	1·0866	2·229	·023	·106	94·53	1·03	3,351	7,469
	mean...	...	26·38	...	...	...	...	...	...	...	94·73	...	...	6,990
B. 1753	...	25,144	35·08	5·52	·69	52·00	1·0835	1·983	·114	·178	87·16	5·75	3,771	7,478
B. 3668	Series i...	19,395	23·62	4·64	...	57·00	1·0933	2·281	·069	·186	89·94	3·02	2,758	6,291
"	" ii...	19,744	21·08	6·48	·87	56·00	1·0915	2·294	·053	·142	92·17	2·31	2,422	5,556
	mean...	...	22·35	...	...	...	...	...	...	...	91·06	...	...	5,924

VARIETIES.

TABLE XXVI.—*Concluded.* HENLEY PLANTATION.—N. W. SWAMP FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
B. 3675 ... ... Series i...	20,615	17·99	4·04	1·39	55·50	1·0875	2·197	·037	·148	92·23	1·68	2,057	4,519
" ... ... " ii...	19,453	13·09	3·50	...	57·00	1·0938	2·378	·035	·135	93·33	1·47	1,528	3,634
mean...	...	15·54	...	...	...	...	...	...	...	92·78	...	...	4,077
B. 3731	17,653	28·31	2·70	24·75	58·75	1·0924	2·352	·041	·119	93·63	1·74	3,410	8,020
B. 4086	22,286	18·53	4·83	1·85	54·50	1·0888	2·262	·025	·130	93·59	1·11	2,078	4,700
B. 5062	17,305	23·80	5·76	1·97	57·75	1·0822	1·905	·147	·188	85·04	7·72	2,845	5,420
B. 5066	16,898	19·13	4·93	...	59·00	1·0884	2·129	·114	·162	88·52	5·36	2,323	4,946
B. 5157	13,866	16·21	4·73	...	52·25	1·0861	2·096	·078	·172	89·34	3·72	1,746	3,660
B. 5855	11,461	13·26	3·44	...	59·25	1·0879	2·219	·044	·130	92·73	1·99	1,618	3,590
D. 95 ... ... Series i...	18,002	18·64	5·65	1·27	58·25	1·0965	2·469	·011	·140	94·24	·45	2,218	5,476
" ... ... " ii...	17,421	16·70	4·36	·33	56·50	1·0956	2·433	·016	·147	93·72	·66	1,929	4,693
mean...	...	17·67	...	...	...	...	...	...	...	93·98	...	...	5,085

SELECTED VARIETIES.

TABLE XXVII. HUSBANDS PLANTATION.—COTTAGE FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent ... ... Series i...	15,853	22·99	3·66	8·08	59·00	1·0809	1·980	·076	·149	89·89	3·84	2,812	5,568
" ... ... " ii...	15,969	32·77	4·80	5·17	59·50	1·0875	2·219	·046	·117	93·16	2·07	4,016	8,912
mean...	...	27·88	...	...	...	...	...	...	...	91·48	...	...	7,240
B. 208 ... ... Series i...	18,989	29·48	5·00	10·41	61·00	1·0929	2·368	·042	·114	93·82	1·77	3,685	8,726
" ... ... " ii...	17,421	31·37	6·20	11·76	59·00	1·0897	2·274	·037	·130	93·16	1·63	3,804	8,650
mean...	...	30·43	...	...	...	...	...	...	...	93·49	...	...	8,688
B. 147 ... ... Series i...	18,060	28·52	5·96	1·27	61·50	1·0782	1·886	·100	·149	88·34	5·30	3,643	6,871
" ... ... " ii...	17,711	33·88	6·82	4·69	60·00	1·0870	2·161	·081	·128	91·18	3·75	4,189	9,052
mean...	...	31·20	...	...	...	...	...	...	...	89·76	...	...	7,962
B. 376 ... ... Series i...	15,737	29·92	3·66	12·86	60·00	1·0800	2·009	·063	·110	92·07	3·14	3,723	7,480
" ... ... " ii...	13,240	26·21	4·15	12·31	59·00	1·0804	2·019	·060	·114	92·07	2·97	3,206	6,473
mean...	...	28·07	...	...	...	...	...	...	...	92·07	...	...	6,977
B. 1030 ... ... Series i...	24,273	28·93	3·99	3·02	56·50	1·0817	1·996	·056	·176	89·59	2·81	3,385	6,756
" ... ... " ii...	25,260	28·33	4·61	·68	55·50	1·0844	2·093	·056	·150	91·04	2·68	3,248	6,798
mean...	...	28·63	...	...	...	...	...	...	...	90·32	...	...	6,777
B. 1355 ... ... Series i...	18,291	24·50	5·06	2·53	60·00	1·0804	2·009	·040	·144	91·61	1·99	3,047	6,121
" ... ... " ii...	19,976	24·94	5·99	...	58·00	1·0879	2·219	·029	·145	92·73	1·31	2,978	6,608
mean...	...	24·72	...	...	...	...	...	...	...	92·17	...	...	6,365

TABLE XXVII.—*Concluded.* SELECTED VARIETIES. HUSBANDS PLANTATION.—COTTAGE FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 1376	15,563	24·71	4·67	14·38	58·25	1·0826	2·082	·058	·112	92·45	2·79	2,978	6,200
B. 1529 ... ... Series i...	26,944	22·32	5·60	1·28	58·00	1·0929	2·381	·039	·104	94·33	1·64	2,653	6,317
" ... ... " ii...	26,248	24·76	5·63	·44	56·50	1·0974	2·479	·032	·134	93·72	1·29	2,855	7,078
mean...	...	23·54	...	...	...	...	...	...	...	94·03	...	...	6,698
B. 1753 ... . Series i...	26,010	36·61	4·80	6·07	57·00	1·0800	1·954	·078	·150	85·55	3·99	4,328	8,457
" ... ... " ii...	23,518	32·64	4·30	2·41	57·50	1·0817	2·022	·068	·138	90·75	3·36	3,886	7,857
mean...	...	34·63	...	...	...	...	...	...	...	90·15	...	...	8,157
B. 3211	14,576	26·99	4·43	12·24	62·00	1·0791	1·938	·093	·127	89·81	4·80	3,473	6,731
B. 3289 ... ... Series i...	12,137	26·96	5·00	16·40	60·00	1·0826	2·061	·058	·133	91·52	2·81	3,347	6,898
" ... ... " ii...	12,369	24·37	4·43	7·79	60·00	1·0809	2·019	·048	·138	91·56	2·38	3,030	6,117
mean...	...	25·67	...	...	...	...	...	...	...	91·54	...	...	6,508

VARIETIES.

TABLE XXVIII. LOWER ESTATE PLANTATION.—SIMMONS BOTTOM FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	14,599	27·76	4·86	...	56·00	1·0906	2·258	·045	·162	91·60	1·99	3,193	7,210
B. 1753	24,480	35·55	5·53	...	54·50	1·0870	2·057	·093	·220	86·79	4·52	3,994	8,216
B. 3013	15,204	36·04	4·77	...	59·50	1·0844	2·041	·060	·198	88·78	2·94	4,430	9,042
B. 3239	11,050	21·61	4·32	...	56·50	1·0861	2·138	·038	·170	91·13	1·78	2,518	5,383
B. 3381	16,939	19·80	4·05	...	51·50	1·0956	2·398	·027	·171	92·37	1·13	2,085	5,000
B. 6450	18,914	41·56	6·30	...	61·50	1·0866	2·061	·100	·197	87·40	4·85	5,271	10,864

TABLE XXIX. PINE PLANTATION.—SOUTH 19 ACRE FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	13,430	28·71	2·97	2·06	60·00	1·0826	1·976	·093	·183	87·74	4·71	3,565	7,044
B. 1529	21,254	27·45	2·84	3·13	63·00	1·0933	2·310	·050	·176	91·09	2·16	3,544	8,187
B. 1753	20,125	37·17	3·78	...	57·00	1·0791	1·892	·063	·203	87·67	3·33	4,399	8,323
B. 1809	15,567	32·49	6·93	1·03	63·00	1·0857	2·080	·078	·176	89·12	3·75	4,224	8,786
B. 3635	14,801	23·77	9·22	...	59·00	1·0915	2·313	·042	·134	92·93	1·82	2,878	6,657
B. 3656	13,915	20·59	5·40	...	59·50	1·0879	2·181	·046	·166	91·14	2·11	2,523	5,503
B. 3731	11,050	23·95	4·72	8·05	61·00	1·0938	2·362	·031	·155	92·70	1·31	2,991	7,065
B. 4028	19,479	32·87	6·30	1·23	62·00	1·0751	1·808	·093	·152	88·07	5·14	4,245	7,675
B. 5758	13,027	27·27	5·73	·92	61·00	1·0831	2·035	·074	·154	89·92	3·64	3,441	7,002

TABLE XXX. RIDGE PLANTATION.—WELL FIELD.

VARIETIES.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	14,181	33·32	5·51	12·01	57·00	1·0915	2·326	·030	·133	93·45	1·29	3,897	9,064
B. 1030	20,812	35·33	3·31	4·66	57·00	1·0844	1·996	·089	·214	86·82	4·46	4,160	8,303
B. 1355	20,580	37·88	5·30	1·21	58·50	1·0915	2·349	·028	·112	94·38	1·19	4,547	10,681
B. 1376	14,810	34·92	3·78	4·67	59·00	1·0920	2·339	·043	·119	93·52	1·84	4,226	9,885
B. 1528	15,149	26·14	2·70	22·72	58·50	1·0879	2·161	·089	·143	90·31	4·12	3,149	6,805
B. 1529	18,295	30·31	3·39	2·83	56·25	1·0992	2·446	·074	·173	90·83	3·03	3,475	8,500
B. 1753	20,618	31·68	3·13	·23	53·25	1·0835	1·921	·119	·235	84·44	6·19	3,487	6,699
B. 3289	12,536	29·01	3·91	7·50	60·25	1·0911	2·297	·026	·154	92·74	1·13	3,589	8,244
B. 3635	17,037	27·23	6·70	2·76	59·00	1·0942	2·414	·037	·109	94·29	1·53	3,288	7,937
B. 3656	19,166	36·32	3·93	2·46	62·00	1·0861	1·895	·104	·347	80·78	5·49	4,644	8,800
B. 3696	17,763	37·21	3·98	7·79	61·75	1·0906	2·271	·052	·142	92·13	2·29	4,719	10,717
B. 3819	19,505	36·62	4·00	7·57	60·50	1·0861	2·116	·083	·147	90·20	3·92	4,570	9,670
B. 4028	11,079	34·88	3·17	5·07	63·50	1·0765	1·545	·093	·450	73·99	6·02	4,611	7,124
B. 4596	18,247	37·75	5·53	5·75	59·00	1·0826	1·950	·109	·193	86·59	5·59	4,608	8,986
B. 5062	15,440	30·25	5·57	7·27	57·50	1·0848	2·015	·109	·187	87·19	5·41	3,592	7,238
B. 5758	20,328	24·72	4·95	1·18	58·75	1·0875	2·193	·036	·153	92·07	1·64	2,991	6,559
B. 6048	18,731	29·71	4·32	7·42	59·50	1·0879	2·129	·086	·178	88·97	4·04	3,640	7,750

VARIETIES.

TABLE XXXI. SUNBURY PLANTATION.—BELOW YARD FIELD.

Plant Canes.

Number or Name of Seedling.	Number of Canes per acre.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. / 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	13,968	23·29	4·18	13·91	56·50	1·0884	2·151	·037	·217	89·44	1·72	2,709	5,825
B. 147	16,896	36·47	7·29	7·37	50·00	1·0866	2·145	·032	·181	90·97	1·49	3,759	8,063
B. 208	17,424	29·42	5·49	7·40	59·75	1·0974	2·459	·035	·151	92·97	1·42	3,588	8,823
B. 1030	22,176	28·39	4·41	1·70	54·00	1·0884	2·158	·053	·194	89·73	2·46	3,155	6,808
B. 1753	21,456	28·48	3·99	1·54	52·00	1·0831	2·031	·056	·176	89·75	2·75	3,063	6,221
B. 3224	19,056	26·40	5·10	4·34	59·00	1·0875	2·151	·025	·206	90·30	1·16	3,208	6,900
B. 3289	13,173	25·71	4·74	11·47	58·50	1·0853	2·125	·032	·166	91·48	1·51	3,105	6,598
B. 3509	27,600	27·99	6·92	2·38	53·50	1·0906	2·297	·022	·146	93·18	·96	3,075	7,063
B. 3731	19,584	24·49	5·68	4·45	56·50	1·0960	2·475	·027	·106	94·9[illegible]	1·09	2,828	6,999
B. 4596	16,992	34·84	6·99	2·75	60·41	1·0813	1·905	·100	·212	85·93	5·25	4,360	8,306
B. 5062	15,216	22·46	5·76	7·04	57·00	1·0866	1·989	·114	·255	84·35	5·73	2,639	5,249
B. 5066	15,840	26·26	6·66	12·00	58·00	1·0848	1·921	·119	·271	83·12	6·19	3,144	6,040

TABLE XXXII. AVERAGE RESULTS OBTAINED FOR THE SEASON 1907 FROM THE FOLLOWING NINE SELECTED VARIETIES OF CANE ON FOURTEEN ESTATES ELEVEN BLACK AND THREE RED.

Plant Canes.

Number or Name of Seedling.	Number of Plots.	Weight in tons per acre.		Per cent by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per gallon. Saccharose.	Glucose.	Solids not Sugar.	Quotient of Purity.	Glucose Ratio.		
B. 3696	7	32·33	4·68	2·59	62·00	1·0819	2·025	·076	·134	90·55	3·83	4,156	8,424
B. 208	20	27·71	5·56	8·38	59·14	1·0919	2·315	·051	·134	92·66	2·21	3,372	7,780
B. 1753	19	34·28	4·48	2·42	55·92	1·0811	1·925	·095	·192	87·00	4·98	3,976	7,643
B. 1529	14	24·07	4·54	3·36	58·79	1·0963	2·433	·039	·144	93·01	1·60	2,904	7,025
B. 376	10	28·09	4·93	10·16	57·72	1·0824	2·055	·057	·135	91·35	2·89	3,377	6,843
D. 95	6	24·58	6·46	4·68	58·79	1·0903	2·297	·030	·128	93·55	1·34	2,974	6,791
White Transparent	28	25·93	4·69	6·73	58·22	1·0865	2·146	·060	·150	91·05	2·86	3,119	6,685
B. 3289	8	24·42	4·41	8·61	58·34	1·0834	2·051	·047	·175	90·15	2·35	2,954	6,071
B. 1030	11	25·34	4·13	1·43	55·70	1·0843	2·042	·071	·184	88·86	3·56	2,953	5,945

TABLE XXXIII. AVERAGE RESULTS OBTAINED FROM THE FOLLOWING FOUR SELECTED VARIETIES OF CANE ON FOUR ESTATES—THREE BLACK AND ONE RED.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
D. 95	5	18·44	5·44	·86	54·95	1·0896	2·282	·027	·129	93·59	1·18	2,090	4,815
B. 376	5	17·42	4·33	2·31	53·95	1·0841	2·114	·040	·138	92·25	1·88	1,999	4,246
White Transparent	6	16·04	4·75	1·80	53·58	1·0855	2·154	·052	·124	92·43	2·43	1,799	3,897
B. 208	5	13·47	4·37	1·82	56·50	1·0924	2·336	·042	·134	92·96	1·81	1,571	3,713

TABLE XXXIV. AVERAGE RESULTS OBTAINED FROM THE FOLLOWING TWELVE SELECTED VARIETIES OF CANE ON ELEVEN BLACK SOIL ESTATES.

Plant Canes.

Number or Name of Seedling.	Number of Plots.	Weight in Tons per Acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
B. 3696	5	33·25	4·20	1·91	62·10	1·0841	2·092	·067	·133	91·24	3·23	4,271	8,916
B. 208	14	29·73	5·33	5·84	59·31	1·0921	2·315	·055	·062	92·49	2·39	3,628	8,365
B. 147	4	31·78	6·90	3·82	58·63	1·0833	2·036	·074	·161	89·61	3·67	3,819	7,793
B. 3635	5	26·52	6·94	·87	60·55	1·0896	2·257	·048	·133	92·52	2·16	3,306	7,455
D. 95	3	25·39	5·58	·90	61·83	1·0879	2·222	·043	·129	92·80	1·93	3,268	7,315
B. 1753	14	32·57	4·17	2·06	56·29	1·0812	1·916	·099	·200	86·47	5·23	3,809	7,274
B. 376	6	28·99	4·52	8·70	59·07	1·0812	2·011	·068	·137	90·73	3·44	3,569	7,123
B. 1529	10	24·43	4·29	1·35	59·48	1·0956	2·400	·044	·153	92·41	1·83	2,976	7,090
White Transparent	22	26·55	4·53	6·23	58·49	1·0866	2·139	·064	·155	90·67	3·07	3,207	6,871
B. 6048	5	28·86	4·78	4·50	62·20	1·0809	1·822	·135	·251	82·32	7·67	3,739	6,735
B. 1376	4	25·01	4·02	6·08	57·81	1·0871	2·180	·055	·136	91·93	2·56	2,999	6,562
B. 1030	9	26·98	3·88	1·74	55·52	1·0839	2·016	·080	·189	88·22	4·05	3,145	6,263

TABLE XXXV. AVERAGE RESULTS OBTAINED FROM THE FOLLOWING FOUR SELECTED VARIETIES OF CANE ON FOUR BLACK SOIL ESTATES.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
White Transparent	4	12·60	4·95	1·71	52·56	1·0851	2·144	·034	·142	92·43	1·59	1,382	2,978
D. 95	3	11·87	5·17	·98	54·33	1·0884	2·243	·022	·139	93·28	1·00	1,321	2,965
B. 376	3	11·87	4·49	1·97	51·33	1·0835	2·095	·037	·143	92·07	1·78	1,280	2,686
B. 208	3	9·19	4·12	·31	55·50	1·0911	2·292	·034	·151	92·52	1·48	1,047	2,416

TABLE XXXVI. AVERAGE RESULTS OBTAINED FROM THE FOLLOWING TWELVE VARIETIES OF CANE ON THREE RED SOIL ESTATES.

Plant Canes.

Number or Name of Seedling.	Number of Plots.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. $\frac{30°C.}{16·6°C.}$	Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio		
B. 3405	4	44·52	8·00	5·14	59·69	1·0812	1·960	·093	·161	88·47	4·77	5,471	10,792
B. 3412	4	42·08	6·80	8·77	57·60	1·0794	1·915	·099	·154	88·39	5·14	5,006	9,589
B. 3390	4	40·16	8·06	5·32	56·94	1·0822	2·008	·074	·158	89·63	3·74	4,725	9,536
B. 1753	5	39·09	5·33	3·41	54·90	1·0809	1·951	·084	·171	88·47	4·29	4,443	8,674
B. 1566	6	32·69	7·35	6·58	57·29	1·0855	2·189	·031	·109	93·96	1·45	3,860	8,394
B. 3696	2	30·04	5·88	4·30	61·80	1·0765	1·855	·099	·135	88·81	5·32	3,869	7,194
B. 1529	4	23·17	5·17	8·39	57·06	1·0981	2·517	·026	·120	94·53	1·03	2,724	6,864
B. 376	4	26·74	5·54	12·35	55·69	1·0842	2·122	·040	·133	92·29	2·07	3,088	6,423
B. 208	6	23·00	6·10	14·29	58·80	1·0915	2·314	·042	·137	93·05	1·80	2,775	6,410
D. 95	3	23·76	7·33	8·46	55·75	1·0926	2·373	·017	·127	94·30	·75	2,680	6,266
White Transparent	6	23·67	5·26	8·54	57·30	1·0862	2·171	·045	·132	92·41	2·11	2,796	6,006
B. 1030	2	17·97	5·27	...	56·50	1·0864	2·158	·030	·164	91·76	1·39	2,091	4,512

TABLE XXXVII. AVERAGE RESULTS OBTAINED ON ONE RED SOIL ESTATE WITH THE BELOW MENTIONED SIX SELECTED VARIETIES OF SUGAR CANE.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Weight in tons per acre.		Per cent. by number of rotten Canes.	Per cent. of Juice by mill.	Normal Juice.						Gallons of Juice per acre.	Saccharose lb. per acre.
		Canes.	Cane Tops.			Sp. Gr. 30°C. 16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.		
D. 95	2	28·29	5·86	...	55·88	1·0916	2·341	·034	·114	94·07	1·45	3,243	7,591
B. 1566	2	27·44	5·23	·74	54·50	1·0857	2·145	·056	·134	91·84	2·60	3,087	6,645
B. 376	2	25·74	4·09	2·82	57·88	1·0851	2·142	·044	·130	92·51	2·03	3,077	6,586
White Transparent	2	22·92	4·35	2·00	55·63	1·0864	2·174	·089	·089	92·43	4·12	2,635	5,736
B. 208	2	19·90	4·76	4·10	58·00	1·0945	2·403	·056	·108	93·63	2·31	2,357	5,660
B. 1529	2	8·73	2·62	...	54·25	1·0985	2·527	·058	·091	94·47	2·28	969	2,449

TABLE XXXVIII. MEAN RESULTS BLACK AND RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 3696	1904 ...	1	40·43	...	1·863	·058	·138	90·48	3·11	9,926	...
	1905 ...	1	36·46	1·07	2·078	·048	·208	89·03	2·31	9,731	...
	1906 ...	4	29·08	2·15	2·125	·074	·180	89·27	3·57	8,839	...
	1907 ...	7	32·33	2·59	2·025	·076	·134	90·55	3·83	8,424	...
	mean ...	...	33·81	2·14	2·047	·072	·154	90·03	3·58	8,768	3·13
B. 1529	1904 ...	5	32·54	0·34	2·320	·064	·144	93·11	1·15	9,137	...
	1905 ...	6	25·01	2·59	2·410	·039	·157	92·54	1·66	7,402	...
	1906 ...	10	27·32	1·10	2·474	·042	·169	92·13	1·71	8,021	...
	1907 ...	14	24·07	3·36	2·433	·039	·144	93·01	1·60	7,025	...
	mean ...	...	26·37	2·18	2·425	·044	·154	92·69	1·57	7,677	2·74
B. 1753	1902 ...	1	31·45	1·04	2·038	·079	·146	90·06	3·88	7,620	...
	1903 ...	1	24·03	2·68	1·993	·060	·210	88·07	3·01	5,371	...
	1904 ...	1	57·91	...	1·879	·050	·206	88·01	2·66	13,112	...
	1905 ...	1	42·41	...	2·057	·060	·170	89·94	2·92	9,921	...
	1906 ...	1	25·84	2·15	1·917	·114	·244	84·26	5·95	5,135	...
	1907 ...	19	34·28	2·42	1·925	·095	·192	87·00	4·98	7,643	...
	mean ...	...	33·56	1·83	1·932	·092	·199	86·89	4·82	7,526	2·69

TABLE XXXVIII—*Continued.* MEAN RESULTS BLACK AND RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb per gallon. Saccharose.	Normal Juice. Lb per gallon. Glucose.	Normal Juice. Lb per gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio	Saccharose lb. per acre.	Muscovado yield.
B. 208	1900 ...	11	22·55	3·70	2·134	·057	·159	90·81	2·67	5,443	...
	1901 ...	13	30·22	7·39	2·231	·076	·187	89·40	3·47	8,420	...
	1902 ...	12	26·22	5·80	2·312	·065	·146	91·61	2·84	7,595	...
	1903 ...	10	20·30	1·42	2·151	·046	·168	90·90	2·19	5,052	...
	1904 ...	13	28·08	5·97	2·165	·038	·180	90·81	1·78	7,680	...
	1905 ...	22	23·81	5·25	2·278	·040	·188	91·30	1·83	6,744	...
	1906 ...	15	26·13	3·96	2·334	·054	·161	91·53	2·35	7,365	...
	1907 ...	20	27·71	8·38	2·315	·051	·134	92·66	2·21	7,780	...
	mean ...	...	25·81	5·52	2·253	·052	·166	91·24	2·37	7,140	2·55
B. 376	1902 ...	5	26·22	11·04	2·157	·074	·103	92·42	3·44	6,947	...
	1903 ...	9	21·48	5·36	1·915	·059	·170	89·68	3·15	5,067	...
	1904 ...	13	29·69	6·30	1·900	·073	·267	88·64	3·98	7,035	...
	1905 ...	13	23·88	5·63	2·060	·057	·156	90·55	2·88	6,123	...
	1906 ...	10	30·03	4·51	2·090	·056	·189	89·47	2·69	7,603	...
	1907 ...	10	28·09	10·16	2·055	·057	·135	91·35	2·89	6,843	...
	mean ...	...	26·70	7·34	2·056	·057	·139	90·40	2·83	6,590	2·35

TABLE XXXVIII.—*Concluded.* MEAN RESULTS BLACK AND RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
White Transparent	1901 ...	9	27·81	10·27	2·050	·090	·153	89·04	4·44	7,320	...
	1902 ...	23	24·41	10·27	2·124	·082	·138	90·60	3·88	6,550	...
	1903 ...	20	20·52	4·93	1·966	·059	·170	89·52	3·05	5,023	...
	1904 ...	27	28·75	4·42	1·930	·060	·177	88·96	3·15	7,010	...
	1905 ...	28	22·93	2·58	2·082	·053	·169	90·35	2·58	5,799	...
	1906 ...	21	27·76	5·68	2·063	·072	·189	88·23	3·51	6,779	...
	1907 ...	28	25·93	6·73	2·146	·060	·150	91·05	2·86	6,685	...
	mean ...	...	25·31	5·94	2·052	·061	·165	89·80	3·21	6,395	2·27

TABLE XXXIX. MEAN RESULTS BLACK AND RED SOIL ESTATES FOR SEASONS ENDING—1901, 1902, 1903, 1904, 1905, 1906, 1907.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 376 ... ... 1901—7 mean...	23	17·73	2·88	2·058	·046	·141	91·43	2·26	4,389	1·57
D. 95 ... ... 1903—7 mean...	22	16·94	1·67	2·115	·039	·159	91·31	1·94	4,287	1·53
B. 208 ... ... 1901—7, mean...	46	15·35	4·32	2·245	·044	·155	92·02	2·01	4,192	1·50
White Transparent ... ... 1902—7 mean...	45	16·25	4·77	2·068	·054	·151	90·37	2·66	3,389	1·21

TABLE XL. MEAN RESULTS BLACK SOIL ESTATES FOR SEASONS—1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 3696	1904 ...	1	40·43	...	1·863	·058	·138	90·48	3·11	9,926	...
	1905 ...	1	36·46	1·07	2·078	·048	·208	89·03	2·31	9,731	...
	1906 ...	4	29·08	2·15	2·125	·074	·180	89·27	3·57	8,839	...
	1907 ...	5	33·25	1·91	2·092	·067	·133	91·24	3·23	8,916	...
	mean ...	...	34·49	1·75	2·082	·067	·158	90·25	3·26	9,054	3·23
B. 3635	1904 ...	1	40·74	1·64	1·959	·051	·178	89·53	2·60	9,891	...
	1905 ...	1	23·04	...	2·129	·043	·233	88·52	2·02	6,187	...
	1906 ...	4	30·43	·85	2·279	·051	·167	91·32	2·21	8,354	...
	1907 ...	5	26·52	·87	2·257	·048	·133	92·52	2·16	7,455	...
	mean ...	...	28·92	·85	2·226	·049	·159	91·45	2·19	7,888	2·82
B. 1529	1904 ...	4	32·64	·43	2·333	·071	·149	93·35	1·04	9,341	...
	1905 ...	4	25·21	2·63	2·480	·039	·182	91·80	1·58	7,613	...
	1906 ...	8	27·43	1·17	2·458	·047	·174	91·74	1·94	7,968	...
	1907 ...	10	24·43	1·35	2·400	·044	·153	92·41	1·83	7,090	...
	mean ...	...	26·74	1·36	2·420	·048	·164	92·13	1·72	7,787	2·78

TABLE XL.—*Continued.* MEAN RESULTS BLACK SOIL ESTATES FOR SEASONS—1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 1753	1902 ...	1	31·45	1·04	2·038	·079	·146	90·06	3·88	7,620	...
	1903 ...	1	24·03	2·68	1·993	·060	·210	88·07	3·01	5,371	...
	1904 ...	1	57·91	...	1·879	·050	·206	88·01	2·66	13,112	...
	1905 ...	1	42·41	...	2·057	·060	·170	89·94	2·92	9,921	...
	1906 ...	1	25·84	2·15	1·917	·114	·244	84·26	5·95	5,135	...
	1907 ...	14	32·57	2·06	1·916	·099	·200	86·47	5·23	7,274	...
	mean ...	...	33·56	1·83	1·932	·092	·199	86·89	4·82	7,526	2·69
B. 208	1900 ...	7	20·28	2·76	2·233	·045	·183	90·74	2·01	4,988	...
	1901 ...	9	31·43	9·16	2·200	·081	·203	88·49	3·76	8,741	...
	1902 ...	8	28·21	8·53	2·325	·068	·153	91·30	2·97	8,323	...
	1903 ...	8	20·38	1·73	2·163	·047	·170	90·81	2·22	5,329	...
	1904 ..	9	25·99	4·02	2·165	·038	·185	90·64	1·78	7,083	...
	1905 ...	18	22·84	3·95	2·331	·036	·195	91·50	1·59	6,575	...
	1906 ...	13	25·95	3·91	2·346	·058	·155	91·65	2·51	7,287	...
	1907 ...	14	29·73	5·84	2·315	·055	·062	92·49	2·39	8,365	...
	mean ...	...	25·72	4·93	2·275	·052	·160	91·13	2·33	7,171	2·56

TABLE XL.—*Continued.* MEAN RESULTS BLACK SOIL ESTATES FOR SEASONS—1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 147	1900	9	25·76	4·74	1·910	·082	·185	87·74	4·29	6,067	...
	1901	15	32·98	5·73	1·884	·113	·204	85·56	6·04	8,160	..
	1902	16	31·23	4·67	2·004	·105	·188	87·25	5·26	8,239	...
	1903	18	22·53	2·28	1·871	·063	·210	86·98	3·44	5,269	...
	1904	4	28·56	1·03	1·783	·077	·186	87·00	4·99	6,659	...
	1905	5	30·71	0·85	1·951	·067	·207	87·67	3·44	7,803	...
	1906	4	30·77	2·10	1·980	·080	·246	85·90	4·03	7,640	...
	1907	4	31·78	3·82	2·036	·074	·161	89·61	3·67	7,793	...
	mean	...	28·66	3·69	1·922	·087	·186	86·97	4·55	7,082	2·52
B. 376	1902	3	31·17	10·49	2·139	·076	·119	91·64	3·56	8,350	...
	1903	7	21·87	6·66	1·938	·056	·175	89·66	2·95	5,145	...
	1904	9	27·33	7·08	1·976	·062	·160	89·82	3·17	6,627	...
	1905	9	22·78	3·71	2·165	·045	·169	90·97	2·08	6,103	...
	1906	8	29·42	4·89	2·098	·059	·190	89·35	2·83	7,387	...
	1907	6	28·99	8·70	2·011	·068	·137	90·73	3·44	7,123	...
	mean	...	26·36	6·87	2·050	·059	·144	90·22	2·90	6,606	2·36

TABLE XL.—*Concluded.* MEAN RESULTS BLACK SOIL ESTATES FOR SEASONS—1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
White Transparent	1901 ...	6	31·27	8·61	2·074	·087	·150	89·29	4·23	8,430	...
	1902 ...	17	26·24	12·45	2·107	·087	·150	89·88	4·17	7,201	...
	1903 ...	18	21·10	5·23	1·969	·059	·171	89·49	3·05	5,172	...
	1904 ...	22	28·85	4·73	1·949	·059	·180	89·06	2·94	7,068	...
	1905 ...	23	22·83	2·35	2·123	·049	·175	90·45	2·33	5,864	...
	1906 ...	18	27·64	4·55	2·091	·073	·176	89·24	3·54	6,876	...
	1907 ...	22	26·55	6·23	2·139	·064	·155	90·67	3·07	6,871	...
	mean ...	...	25·80	5·83	2·063	·065	·168	89·81	3·16	6,586	2·35

TABLE XLI. MEAN RESULTS BLACK SOIL ESTATES FOR SEASONS ENDING—1901, 1902, 1903, 1904, 1905, 1906, 1907.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Normal Juice. Lb. per gallon. Glucose.	Normal Juice. Lb. per gallon. Solids not sugar.	Normal Juice. Quotient of Purity.	Normal Juice. Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
D. 95 ... ... 1903—7 mean...	10	14.44	2·09	2·147	·040	·150	91·70	2·00	3,736	1·33
B. 208 ... . 1901—7 mean...	26	13·01	·77	2·290	·039	·148	92·31	1·72	3,585	1·28
White Transparent ... ... 1901—7 mean...	31	13·84	2·31	2·119	·048	·154	91·14	2·35	3,461	1·24
B. 376 ... ... 1903—7 mean...	14	13·79	1·44	2·136	·042	·138	91·85	2·02	3,418	1·22

TABLE XLII. MEAN RESULTS RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
B. 208	1900	4	26·52	4·89	1·961	·078	·117	90·96	3·98	6,239	...
	1901	4	27·49	3·37	2·302	·065	·150	91·45	2·81	7,698	...
	1902	4	22·22	·34	2·284	·059	·133	92·22	2·59	6,139	...
	1903	2	19·96	·19	2·104	·044	·158	91·26	2·09	5,443	...
	1904	2	32·89	10·37	2·163	·038	·170	91·18	1·75	9,023	...
	1905	4	28·19	11·06	2·038	·059	·158	90·34	2·95	7,503	...
	1906	2	27·31	4·29	2·258	·029	·203	90·71	1·26	7,876	...
	1907	6	23·00	14·29	2·314	·042	·137	93·05	1·80	6,410	...
	mean	...	26·01	7·31	2·190	·053	·149	91·67	2·44	6,718	2·40
B. 376	1902	2	18·78	6·87	2·180	·071	·079	93·58	3·26	4,842	...
	1903	2	20·13	·78	1·833	·071	·150	89·76	3·86	4,792	...
	1904	4	35·01	4·55	1·726	·098	·183	85·94	5·80	7,954	...
	1905	4	26·34	9·92	1·824	·083	·126	89·61	4·65	6,168	...
	1906	2	34·50	8·73	2·058	·044	·186	89·96	2·15	8,464	...
	1907	4	26·74	12·35	2·122	·040	·133	92·29	2·07	6,423	...
	mean	...	27·51	7·78	1·935	·070	·144	89·89	3·81	6,574	2·35

TABLE XLII.—*Continued.* MEAN RESULTS RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904 1905, 1906, 1907,

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
D. 95	1903	2	17·31	5·99	1·841	·076	·154	88·91	4·12	4,035	...
	1904	4	27·73	2·05	1·852	·077	·135	89·64	4·21	6,522	..
	1905	4	25·21	9·50	1·867	·072	·140	89·72	3·89	6,078	...
	1906	4	27·91	3·15	2·307	·028	·160	92·47	1·22	8,063	...
	1907	3	23·76	8·46	2·373	·017	·127	94·30	·75	6,266	...
	mean	...	24·90	5·99	2·019	·057	·141	90·88	3·02	6,225	2·22
White Transparent	1901	3	20·90	13·59	2·004	·094	·159	88·59	4·65	5,102	...
	1902	6	19·23	4·09	2·169	·068	·109	92·42	3·17	4,921	...
	1903	2	15·31	2·28	1·938	·058	·163	89·75	3·00	3,687	...
	1904	5	28·31	3·06	1·840	·074	·163	88·55	4·07	6,753	...
	1905	5	23·35	3·66	1·897	·070	·160	89·90	3·76	5,542	...
	1906	3	25·87	12·46	1·899	·064	·265	85·20	3·37	6,199	...
	1907	6	23·67	8·54	2·171	·045	·132	92·41	2·11	6,006	...
	mean	...	22·89	6·40	2·009	·066	·142	90·05	3·38	5,604	2·00
B. 3405	1904	1	32·25	1·47	1·722	·083	·190	86·32	4·82	7,551	...
	1905	1	37·38	·91	2·078	·048	·185	89·91	2·31	9,664	...
	1906	1	47·89	4·76	1·818	·078	·373	80·12	4·29	11,070	...
	1907	4	44·52	5·14	1·960	·093	·161	88·47	4·77	10,792	...
	mean	...	42·23	3·96	1·923	·083	·199	87·17	4·36	10,208	3·65

TABLE XLII.—*Concluded.* MEAN RESULTS RED SOIL ESTATES FOR SEASONS—1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907.

Plant Canes.

Number or Name of Seedling.		Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per Gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio	Saccharose lb. per acre.	Muscovado yield.
B. 3412	1904	1	40·30	1·69	1·683	·078	·212	85·30	4·63	9,108	...
	1905	1	37·23	3·38	2·069	·050	·192	89·53	2·41	9,343	...
	1906	1	48·75	8·93	2·093	·074	·238	87·03	3·54	13,018	...
	1907	4	42·08	8·77	1·915	·099	·154	88·39	5·14	9,589	...
	mean	...	42·09	7·01	1·931	·085	·179	87·92	4·45	9,975	3·56
B. 3390	1904	1	43·03	8·09	1·727	·081	·176	87·05	4·69	9,740	...
	1905	1	41·92	1·18	1·879	·056	·200	88·01	2·98	9,647	...
	1906	1	37·60	6·37	2·067	·066	·225	87·66	3·19	9,452	...
	1907	4	40·16	5·32	2·008	·074	·158	89·63	3·74	9,536	...
	mean	...	40·46	5·27	1·958	·071	·176	88·75	3·69	9,565	3·42
B. 1566	1904	1	39·33	2·60	1·798	·074	·205	86·57	4·12	8,353	...
	1905	2	37·15	·44	1·923	·065	·142	90·29	3·35	9,298	...
	1906	2	38·02	3·68	2·081	·035	·219	89·14	1·68	9,811	...
	1907	6	32·69	6·58	2·189	·031	·109	93·96	1·45	8,394	...
	mean	...	35·07	4·58	2·085	·042	·143	91·75	2·08	8,812	3·15
B. 1529	1904	1	32·15	...	2·268	·037	·124	93·37	1·63	8,321	...
	1905	2	24·60	2·50	2·272	·039	·106	94·00	1·72	6,981	...
	1906	2	26·86	·81	2·540	·020	·151	93·70	·79	8,232	...
	1907	4	23·17	8·39	2·517	·026	·120	94·53	1·03	6,864	...
	mean	...	25·31	4·46	2·440	·029	·125	94·10	1·20	7,356	2·63

TABLE XLIII. MEAN RESULTS RED SOIL ESTATES FOR SEASONS ENDING—1901, 1902, 1903, 1904, 1905, 1906, 1907.

1st Ratoons.

Number or Name of Seedling.	Number of Plots.	Tons Canes per acre.	Per cent. by number of rotten Canes.	Normal Juice. Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.	Muscovado yield.
D. 95 ... ... 1903—7 ...	10	24·74	2·17	2·048	·044	·133	91·25	2·21	6,307	2·25
B. 376 ... ... 1904—7 ...	8	25·95	5·86	1·960	·049	·144	90·94	2·44	6,280	2·24
B. 1566 ... ... 1905—7 ...	5	25·53	1·15	2·014	·055	·148	90·77	2·73	6,094	2·18
White Transparent ... ... 1902—7 ...	15	21·53	5·32	1·964	·066	·155	89·97	3·23	5,277	1·88
B. 208 ... ... 1901—7 ...	20	18·37	8·92	2·187	·052	·146	91·12	2·37	4,981	1·78

TABLE XLIV.

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906 AND 1907. ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
1 B. 3696	4	11	36·06	2·040	·062	88·84	3·36	9,353
2 B. 1753	4	16	39·71	1·942	·081	87·21	4·17	8,872
3 B. 1809	4	4	33·07	2·057	·087	89·26	4·18	8,428
4 B. 1355	4	8	31·89	2·111	·046	91·47	2·17	8,414
5 B. 3708	4	5	34·74	1·935	·068	88·76	3·51	8,395
6 B. 3289	4	11	33·05	2·046	·051	89·96	2·34	8,360
7 B. 3819	4	5	35·06	1·930	·077	88·38	4·06	8,332
8 B. 3853	4	4	33·84	1·939	·066	89·74	3·49	8,329
9 B. 1030	4	13	34·85	2·021	·054	88·22	2·69	8,295
10 B. 6048	4	9	33·27	1·904	·100	84·99	5·48	8,227
11 B. 3859	4	4	35·12	1·930	·099	85·03	5·67	8,176
12 B. 5353	4	4	36·94	2·016	·073	88·05	3·63	8,147
13 B. 4028	4	6	38·85	1·642	·094	80·92	5·85	8,135
14 B. 3700	4	4	32·38	2·006	·057	89·71	2·86	8,054
15 B. 1529	4	26	27·43	2·417	·039	92·26	1·60	8,004
16 B. 3635	4	11	30·19	2·156	·048	90·48	2·25	7,972
17 B. 1376	4	7	30·89	2·086	·057	90·64	2·74	7,921
18 B. 3750	4	4	31·27	1·965	·069	88·64	3·49	7,875
19 B. 3838	4	4	33·39	1·894	·107	85·79	5·74	7,829
20 B. 4596	4	6	34·23	1·786	·108	85·13	6·18	7,680
21 B. 3013	4	4	31·00	1·923	·077	88·22	4·06	7,643
22 B. 1528	4	5	30·15	2·072	·063	90·11	3·03	7,614
23 B. 3735	4	4	28·63	2·155	·063	89·55	3·04	7,553
24 B. 4844	4	4	33·43	1·764	·130	83·31	7·91	7,541
25 B. 5204	4	4	27·83	2·146	·058	89·59	2·75	7,530

TABLE XLIV.—*Continued.* BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907. ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

	Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
26	B. 147	4	17	30·46	1·938	·075	87·55	3·91	7,474
27	B. 3656	4	7	31·05	1·929	·076	86·25	4·03	7,454
28	B. 5062	4	7	31·55	1·939	·078	86·61	4·06	7,371
29	B. 208	4	55	26·14	2·291	·047	91·48	2·05	7,342
30	B. 3211	4	5	27·37	2·097	·057	90·73	2·78	7,300
31	B. 3731	4	6	26·29	2·226	·047	91·54	2·23	7,292
32	B. 5226	4	4	27·53	2·180	·051	89·53	2·34	7,127
33	B. 3209	4	4	27·77	2·095	·060	90·04	2·86	7,116
34	B. 3509	4	4	28·91	2·208	·044	91·20	1·99	7,084
35	B. 5758	4	6	27·76	2·079	·065	90·42	3·17	7,075
36	B. 3701	4	4	32·48	1·807	·108	83·69	6·07	7,065
37	B. 3810	4	4	30·30	1·661	·112	83·18	7·00	7,008
38	B. 5298	4	4	26·83	2·212	·057	90·17	2·66	7,003
39	B. 4164	4	4	37·74	1·494	·140	77·49	9·41	6,968
40	B. 3224	4	4	27·27	2·073	·055	90·76	2·68	6,944
41	B. 3381	4	7	27·02	2·292	·045	91·05	1·98	6,932
42	W No. 2.	4	9	27·56	2·038	·076	89·29	3·77	6,899
43	B. 3207	4	4	27·34	2·002	·068	88·44	3·44	6,869
44	B. 5102	4	8	29·12	1·930	·076	87·45	3·99	6,860
45	B. 376	4	32	27·13	2·063	·059	90·23	2·91	6,810
46	B. 3681	4	4	27·49	1·896	·089	84·06	4·71	6,766
47	D. 95	4	11	24·24	2·181	·041	91·60	1·90	6,742
48	White Transparent	4	84	26·47	2·076	·061	89·87	2·97	6,670
49	B. 5066	4	7	28·46	1·924	·084	85·14	4·40	6,628
50	Husband Sport Red	4	7	24·84	2·164	·060	91·94	2·79	6,602

TABLE XLIV.—*Concluded.*

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907. ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
51 Jamaica Cane	4	4	25·85	2·063	·047	90·92	2·28	6,592
52 B. 5078	4	4	33·77	1·566	·132	81·19	8·42	6,580
53 B. 3729	4	8	26·43	1·972	·059	89·99	3·03	6,579
54 B. 5068	4	4	29·51	1·663	·140	79·49	8·64	6,386
55 B. 5110	4	4	25·34	2·006	·089	87·31	4·53	6,377
56 White Sport	4	10	26·28	1·861	·094	82·79	5·14	6,354
57 B. 3746	4	4	28·42	1·776	·101	84·53	5·89	6,320
58 T. 24	4	4	21·68	2·299	·043	91·53	1·91	6,301
59 B. 5076	4	4	27·47	2·065	·064	88·24	3·15	6,286
60 B. 4086	4	4	26·81	2·198	·036	91·82	1·63	6,204
61 B. 4969	4	4	27·79	1·875	·064	87·96	3·39	6,164
62 Burke	4	7	26·29	1·856	·098	86·33	5·22	6,011
63 Bourbon	4	4	25·17	1·854	·112	85·90	6·07	5,998
64 Rappoe	4	7	23·95	2·105	·056	90·67	2·70	5,976
65 B. 2942	4	4	24·56	1·991	·054	90·14	2·73	5,963
66 Queensland Creole	4	4	22·11	2·170	·043	92·19	1·99	5,771
67 Caledonian Queen	4	4	22·24	2·045	·041	91·69	2·00	5,707

TABLE XLV.

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907 ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
1 B. 6204	3	3	39·87	1·993	·061	90·12	3·07	10,120
2 B. 3675	3	3	37·47	2·103	·062	88·61	2·93	9,679
3 B. 3747	3	3	36·49	2·192	·058	90·67	2·67	9,503
4 B. 3696	4	11	36·06	2·040	·062	88·84	3·36	9,353
5 B. 6346	3	3	33·45	2·278	·038	91·41	1·67	9,270
6 B. 3922	3	3	33·29	2·152	·056	90·65	2·62	9,224
7 B. 6450	3	5	36·33	2·010	·079	88·46	4·04	9,004
8 B. 6308	3	3	35·99	2·070	·068	90·40	3·31	8,992
9 B. 1753	4	16	39·71	1·942	·081	87·21	4·17	8,872
10 B. 6341	3	3	34·51	2·066	·058	88·88	2·83	8,834
11 B. 6280	3	3	30·48	2·325	·062	90·84	2·72	8,623
12 B. 3668	3	3	33·46	2·118	·065	87·23	3·05	8,593
13 B. 6171	3	3	32·80	2·043	·052	90·22	2·52	8,497
14 B. 3871	3	3	42·88	1·496	·182	78·73	12·59	8,433
15 B. 1809	4	4	33·07	2·057	·087	89·26	4·18	8,428
16 B. 1355	4	8	31·89	2·111	·046	91·47	2·17	8,414
17 B. 3708	4	5	34·74	1·935	·068	88·76	3·51	8,395
18 B. 6360	3	4	35·28	1·960	·105	85·81	5·41	8,393
19 B. 3289	4	11	33·05	2·046	·051	89·96	2·34	8,360
20 B. 3819	4	5	35·06	1·930	·077	88·38	4·06	8,332
21 B. 3853	4	4	33·84	1·939	·066	89·74	3·49	8,329
22 B. 4934	3	3	30·79	2·191	·038	92·47	1·73	8,328
23 B. 1030	4	13	34·85	2·021	·054	88·22	2·69	8,295
24 B. 6388	3	3	30·11	2·192	·057	90·75	2·62	8,256
25 B. 6048	4	9	33·27	1·904	·100	84·99	5·48	8,227

TABLE XLV.—*Continued.*

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907 ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
26 B. 3859	4	4	35·12	1·930	·099	85·03	5·67	8,176
27 B. 5353	4	4	30·94	2·016	·073	88·05	3·63	8,147
28 B. 4028	4	6	38·85	1·642	·094	80·92	5·85	8,135
29 B. 6281	3	3	30·41	2·292	·040	90·71	1·74	8,104
30 B. 3700	4	4	32·38	2·006	·057	89·71	2·86	8,054
31 B. 1529	4	26	27·40	2·417	·039	92·26	1·60	8,004
32 B. 6259	3	3	34·57	1·905	·124	81·79	6·59	7,991
33 B. 3635	4	11	30·19	2·156	·048	90·48	2·25	7,992
34 B. 6835	3	3	28·88	2·341	·031	92·88	1·32	7,940
35 B. 6381	3	3	31·29	2·084	·070	88·88	3·44	7,938
36 B. 6230	3	3	30·68	2·162	·051	88·67	4·02	7,930
37 B. 1376	4	7	30·89	2·086	·057	90·64	2·74	7,921
38 B. 3750	4	4	31·27	1·965	·069	88·64	3·49	7,875
39 B. 4578	3	3	31·88	1·911	·093	85·79	4·85	7,867
40 B. 6274	3	3	34·35	1·933	·072	87·77	3·72	7,864
41 B. 6344	3	3	30·66	2·073	·047	90·81	2·27	7,847
42 B. 3838	4	4	33·39	1·894	·107	85·79	5·74	7,829
43 B. 5135	3	3	31·91	1·921	·104	86·36	5·45	7,810
44 B. 4452	3	3	33·30	1·786	·103	84·77	5·81	7,738
45 B. 4929	3	3	33·46	1·877	·101	85·84	5·44	7,720
46 B. 4596	4	6	34·23	1·786	·108	85·13	6·18	7,680
47 B. 3013	4	4	31·00	1·923	·077	88·22	4·06	7,643
48 B. 1528	4	5	30·15	2·072	·063	90·11	3·03	7,614
49 B. 4031	3	3	32·73	1·768	·113	82·54	6·37	7,612
50 B. 3735	4	4	28·63	2·155	·063	90·11	3·03	7,614

TABLE XLV.—*Continued.*

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907 ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
51 B. 4844	4	4	33·43	1·764	·130	83·31	7·91	7,541
52 B. 5204	4	4	27·83	2·146	·058	89·59	2·75	7,530
53 B. 7169	3	3	29·36	2·269	·058	92·01	2·58	7,507
54 B. 6183	3	3	32·25	1·925	·056	88·49	2·90	7,498
55 B. 147	4	17	30·46	1·938	·075	87·55	3·91	7,474
56 B. 3656	4	7	31·05	1·929	·076	86·25	4·03	7,450
57 B. 5062	4	7	31·55	1·939	·078	86·61	4·06	7,371
58 B. 6138	3	3	34·76	1·801	·096	85·53	5·39	7,361
59 B. 208	4	55	26·14	2·291	·047	91·48	2·05	7,342
60 B. 6278	3	3	29·33	2·443	·028	93·93	1·15	7,320
61 B. 3211	4	5	27·37	2·097	·057	90·73	2·78	7,300
62 B. 3731	4	6	26·29	2·226	·047	91·54	2·23	7,292
63 B. 6347	3	3	28·01	2·211	·059	89·39	2·68	7,215
64 B. 5226	4	4	27·53	2·180	·051	89·53	2·34	7,127
65 B. 3209	4	4	27·77	2·095	·060	90·04	2·86	7,116
66 B. 3509	4	4	28·91	2·208	·044	91·20	1·99	7,084
67 B. 5758	4	6	27·76	2·079	·065	90·42	3·17	7,075
68 B. 3701	4	4	32·48	1·807	·108	83·69	6·07	7,065
69 B. 5014	3	4	28·15	2·124	·065	89·73	3·12	7,046
70 B. 6696	3	3	29·10	2·069	·045	90·36	2·20	7,037
71 B. 3810	4	4	30·30	1·661	·112	83·18	7·00	7,008
72 B. 5298	4	4	26·83	2·212	·057	90·17	2·66	7,003
73 B. 3694	3	3	32·07	1·716	·121	83·23	7·21	6,975
74 B. 4164	4	4	37·74	1·494	·140	77·49	9·41	6,968
75 B. 3224	4	4	27·27	2·073	·055	90·76	2·68	6,944

TABLE XLV.—*Concluded.*

BLACK SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906 AND 1907 ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
76 B. 6265	3	4	29·03	1·898	·107	85·24	5·70	6,943
77 B. 3381	4	7	27·02	2·292	·045	91·05	1·98	6,932
78 B. 6439	3	3	27·31	2·062	·083	87·42	4·04	6,913
79 W. No. 2	4	9	27·56	2·038	·076	89·29	3·77	6,899
80 B. 6345	3	3	26·20	2·222	·069	89·02	3·13	6,889
81 B. 6292	3	3	26·58	2·099	·071	88·54	3·39	6,880
82 B. 3207	4	4	27·34	2·022	·068	88·44	3·44	6,869
83 B. 5102	4	8	29·12	1·930	·076	87·45	3·99	6,860
84 B. 7245	3	3	28·91	2·004	·068	87·96	3·39	6,819
85 B. 376	4	32	27·13	2·063	·059	90·23	2·91	6,810
86 B. 6434	3	3	27·81	2·018	·054	88·09	2·73	6,810
87 B. 3681	4	4	27·49	1·896	·089	84·06	4·71	6,766
88 D. 95	4	11	24·24	2·181	·041	91·60	1·90	6,742
89 B. 6286	3	3	26·55	2·113	·065	88·69	3·10	6,694
90 White Transparent	4	84	26·47	2·076	·061	89·87	2·97	6,670

TABLE XLVI.

RED SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1904, 1905, 1906, AND 1907 ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

Plants.

	Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose lb. per gallon.	Quotient of Purity.	Glucose Ratio.	Saccharose lb. per acre.
1	B. 3412	4	7	42·09	1·940	·075	87·56	3·93	10,264
2	B. 3405	4	7	40·51	1·895	·076	86·21	4·05	9,770
3	B. 3390	4	7	40·68	1·920	·069	88·09	3·65	9,594
4	B. 1566	4	11	36·80	1·997	·051	89·98	2·65	8,964
5	B. 208	4	16	27·85	2·191	·042	91·08	2·08	7,697
6	B. 1529	4	9	26·70	2·399	·031	93·90	1·29	7,587
7	B. 376	4	14	30·15	1·933	·067	89·46	3·67	7,253
8	B. 1521	4	7	26·60	2·111	·060	87·17	3·11	6,964
9	D. 95	4	9	26·27	2·106	·047	91·70	2·39	6,797
10	White Transparent	4	19	25·80	1·949	·063	89·01	3·33	6,115

TABLE XLVII.

RED SOILS.

MEAN RESULTS OF CANES UNDER EXPERIMENT FOR THE YEARS—1905, 1906, AND 1907, ARRANGED ACCORDING TO YIELD OF SACCHAROSE.

1st Ratoons.

Name or Number of Cane.	No. of years under Expt.	No. of Expts.	Tons Canes per acre.	Saccharose lb. per gallon.	Glucose. lb. per gallon.	Quotient of Purity.	Glucose. Ratio.	Saccharose lb. per acre
1 B. 3390	3	3	32·46	1·885	·070	87·01	3·73	6,954
2 B. 3412	3	3	30·23	1·847	·088	84·08	4·76	6,799
3 D. 95	3	6	26·22	2·138	·036	91·98	1·72	6,771
4 B. 376	3	6	25·31	2·017	·043	91·47	2·16	6,167
5 B. 3405	3	3	28·54	1·769	·095	82·65	5·45	6,075
6 White Transparent	3	6	24·24	2·021	·065	90·32	3·20	6,032
7 B. 1566	3	5	24·05	1·963	·054	90·28	2·77	5,674
8 B. 208	3	6	19·62	2·238	·040	92·27	1·77	5,490
9 B. 1529	3	5	15·31	2·393	·038	93·48	1·58	4,221

TABLE XLVIII. RESULTS OF THE LARGE VARIETY EXPERIMENT PLOTS.

Plant Canes.

Date.	Name of Estate.	Name of Field.	Number or Name of Cane.	Size of Plot.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Gallons of Juice per acre (Imp. Gals).	Saccharose lb. per acre.
1907												
March 5	Husbands, St. Lucy.	Cocoanut ...	B. 147	·98 acres..	1·0756	1·840	·096	·129	89·10	5·22	4,165	7,664
„ 27	Carrington	Heavy Foot	„	·5 „ ...	1·0765	1·902	·089	·097	91·09	4·68	3,800	7,228
April 13	Mount Pleasant ...	.	„	1 „ ...	1·0795	1·886	·100	·184	86·91	5·30	3,165	6,409
„ 18	Bannatyne	...	„	...	1·0813	1·970	·064	·183	88·86	3·25	2,832	5,579
„ 26	Upton...	Stoke Hole	„	1·5 acres ...	1·0822	1·899	·093	·248	84·78	4·90	3,599	6,835
May 10	„	Smith Shop	„	9·5 „	1·0782	1·646	·119	·370	77·10	7·23	3,282	5,402
			mean...	...	...	...	...	...	...	...	3,474	6,520
March 1	Husbands	Cocoanut	B. 208	1·05 acres	1·0839	2·096	·068	·123	91·65	3·24	3,649	7,648
„ 4	Jordans	Upper Horse Pond ...	„	1 acre ...	1·0791	1·960	·068	·130	90·82	3·47	3,699	7,250
„ 14	Applewhaites ...	Clarke Farm	„	3 „ ...	1·0844	2·138	·046	·115	93·00	2·15	4,582	9,796
„ 20	Bank Hall	No. 1. 11 acre... ...	„	5 „ ...	1·0906	2·304	·032	·129	93·47	1·39	2,474	5,700
„ 22	Upton...	Hog Hole	„	2 „ ...	1·0844	2·138	·044	·223	88·99	2·06	3,524	7,534
„ 28	Carrington	Heavy Foot	„	·5 „ ...	1·0884	2·171	·048	·186	90·27	2·21	2,800	6,078
April 11	Upton...	Garden	„	·5 „ ...	1·0791	1·821	·078	·259	84·38	4·28	3,034	5,525
„ 11	Olive Branch ...	...	„	1 „ ...	1·0782	1·831	·083	·221	85·76	4·53	3,998	7,420
„ 13	Mount Pleasant ...	...	„	1 „ ...	1·0857	2·106	·068	·160	90·23	3·23	3,332	7,017
May 2	Upton...	Lower Wood	„	...	1·0857	1·918	·089	·327	82·18	4·64	2,777	5,326
			mean...	...	...	...	...	...	...	...	3,387	6,929

TABLE XLVIII—*Concluded.*

RESULTS OF THE LARGE VARIETY EXPERIMENT PLOTS.

Plant Canes.

Date.	Name of Estate.	Name of Field.	Number or Name of Cane.	Size of Plot.	Normal Juice. Sp. Gr. 30° C./16·6° C.	Lb. per gallon. Saccharose.	Glucose.	Solids not sugar.	Quotient of Purity.	Glucose Ratio.	Gallons of Juice per acre (Imp. Gals.)	Saccharose lb. per acre.
1907												
March 27	Carrington	Heavy Foot	B. 376	·5 acres ...	1·0800	1·993	·061	·128	91·34	3·06	2,820	5,660
April 13	Applewhaites ...	Milo Hill	"	9 " ...	1·0787	1·941	·081	·125	90·41	4·17	3,832	7,438
" "	Mt. Pleasant ...		"	1 " ...	1·0793	1·840	·147	·183	84·79	7·99	3,665	6,741
			mean...		...	...	...	...	...	...	3,439	6,613
March 1	Husbands	Cocoanut	White Transparent	1·054 acres.	1·0787	1·950	·068	·129	90·82	3·49	3,240	6,318
" 4	Jordans	Upper Horse Pond ...	" "	1 " ...	1·0795	2·006	·063	·101	92·44	3·14	2,527	5,069
" 14	Upton...	Hog Hole	" "	8 " ...	1·0760	1·847	·061	·169	88·93	3·30	3,670	6,779
" 14	Bank Hall	Mango Tree	" "	10 " ...	1·0751	1·837	·086	·130	89·48	4·68	4,339	7,971
" 28	Carrington	Heavy Foot	" "	·5 " ...	1·0870	1·999	·066	·305	84·35	3·30	2,960	5,918
April 23	Upton...	Stoke Hole	" "	2 acres...	1·0826	1·788	·132	·332	79·40	7·38	3,199	5,720
			mean...	...	...	...	...	...	...	...	3,323	6,296
March 2	Husbands	Cocoanut	B. 1753	1·07 " ...	1·0756	1·805	·087	·171	87·41	4·93	3,659	6,604
April 13	Mount Pleasant ...		Sealy Seedling	1 acre ...	1·0839	1·989	·100	·198	86·97	5·03	3,499	6,960
" 16	" "		B. 109		1·0866	2·074	·076	·208	87·96	3·66	3,332	6,911
" 13	Upton...	Garden	Mt. Blanc	2 acres ...	1·0804	1·788	·086	·319	81·53	4·81	3,552	6,751

TABLE XLIX. RESULTS OF OTHER LARGE VARIETY EXPERIMENT PLOTS.

Plants and Ratoons.

Date	Name of Estate.	Name of Field.	Number or Name of Cane.	Size of Plot.	Normal Juice. Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not Sugar.	Quotient of Purity.	Glucose Ratio.	Gallons of Juice per acre (Imp. Gal.)	Saccharose lb. per acre.
1907.												
March 7	Golden Ridge	...	B. 208 1st Ratoons	...	1·0822	1·963	·083	·194	87·63	4·23	...	...
„ 19	Clermont	...	„ Plants	...	1·0933	2·339	·066	·131	92·23	2·82	...	...
„ 7	Golden Ridge	...	D. 625 1st Ratoons	...	1·0729	1·578	·086	·331	79·10	5·45	...	...
„ 21	Pine	Lower 19 Acre ...	B. 147	...	1.0756	1·805	·093	·167	87·41	5·15	...	...
„ 9	Golden Ridge	...	White Transparent 1st Ratoons	...	1·0689	1·643	·093	·156	86·84	5·66	...	...
„ 21	Pine	Lower 19 Acre ...	„ „	...	1·0804	1·944	·076	·173	88·65	3·91	...	...
April 10	Olive Branch	...	„ „	...	1·0747	1·814	·089	·139	88·83	4·91	...	...
„ 17	Woodland	Ramsay	„ „ 1st Ratoons	...	1·0813	2·025	·060	·132	91·34	2·96	...	...
„ 16	Mount Pleasant	...	Cal. Queen	...	1·0839	2·070	·061	·156	90·51	2·95	...	...
„ 20	Applewhaites	...	Sandy Lane Seedling	...	1·0791	1·788	·208	·162	82·85	1·16	...	...
„ 13	Brighton	Long Pond ...	Burke 1st Ratoons	...	1·0791	1·882	·119	·157	87·21	6·32	...	...

TABLE L. MEAN RESULTS OF ESTATE SAMPLES OF JUICE.

Number or Name of Seeding.		Number of Samples.	NORMAL JUICE. Sp. Gr. 30°C./16·6°C.	Lb. per gallon. Saccharose.	Glucose.	Solids not Sugar.	Quotient of Purity.	Glucose Ratio.
Mount Blanc	Highest ...	...	1·0804	1·788	·086	·319	81·53	4·81
	Lowest ...	...	1·0676	1·580	·114	·163	85·08	7·22
	mean ...	2	1·0740	1·684	·100	·241	83·31	6·02
White Transparent	Highest ...	...	1·0826	2·054	·051	·147	91·21	2·48
	Lowest ...	..	1·0869	1·643	·093	·156	86·84	5·66
	mean ...	35	1·0786	1·911	·077	·157	89·10	4·07
Uba from Natal	... ...	...	1·0813	1·837	·114	·230	82·86	6·21
Sealy Seedling	Highest ...	...	1·0839	1·989	·100	·198	86·97	5·03
	Lowest ...	...	1·0782	1·853	·086	·196	86·78	4·64
	mean ...	2	1·0811	1·921	·093	·197	86·88	4·84
B. 147	Highest ...	...	1·0809	2·019	·071	·155	91·56	3·52
	Lowest ...	...	1·0782	1·646	·119	·370	77·10	7·23
	Mean ...	12	1·0789	1·900	·083	·171	88·22	4·42

TABLE L.—*Concluded.* MEAN RESULTS OF ESTATE SAMPLES OF JUICE.

Number or Name of Seedling.		Number of Samples.	Normal Juice.					
			Sp. Gr. 30°C./16·6°C.	Lb. per gallon.			Quotient of Purity.	Glucose Ratio.
				Saccharose.	Glucose.	Solids not Sugar.		
B. 208	Highest ...	...	1·0933	2·339	·066	·131	92·23	2·82
	Lowest ..	...	1·0791	1·821	·078	·259	84·38	4·28
	Mean ...	14	1·0854	2·078	·068	·178	89·32	3·35
B. 376	Highest ..	...	1·0875	2·200	·053	·129	92·36	2·41
	Lowest ...	...	1·0721	1·750	·069	·154	88·70	3·94
	Mean ...	8	1·0782	1·901	·081	·153	88·97	4·33
B. 1753	... ...	...	1·0756	1·805	·089	·171	87·41	4·93
D. 625	Highest ...	...	1·0729	1·578	·086	·331	79·10	5·45
	Lowest ...	...	1·0721	1·520	·125	·328	78·04	8·22
	Mean ...	2	1·0725	1·549	·106	·330	78·57	6·84