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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

FARM REPORT FOR PERIOD ENDED

NOVEMBER 1939

PRODUCT

BANANAS

| FARMS                | ACREAGE   |            | EXPENDITURE      |            | PRODUCTION |        |                 | COUNT | COST PER COUNT |             | COST PER ACRE MTC. ONLY |
|----------------------|-----------|------------|------------------|------------|------------|--------|-----------------|-------|----------------|-------------|-------------------------|
|                      | IRRIGATED | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems      | Counts | ↑ Ots. PER ACRE |       | FARM MTC.      | HARVEST-ING |                         |
| <b>ST. CATHERINE</b> |           |            |                  |            |            |        |                 |       |                |             |                         |
| Ratson Grove         | 198       | 198        | 18140.06         | 2314.24    | 79800      | 71181  | 368.7           | 898   | .858           | .683        | 93.99                   |
|                      | .079      | .079       | 10078.89         | 860.12     | 7838       | 87849  | 410.6           | 1091  | .338           | .180        | 100.47                  |
| Congrove Park        | 534       | 534        | 51829.74         | 7999.90    | 390616     | 232658 | 105.7           | 901   | .220           | .034        | 95.98                   |
|                      | .135      | .135       | 21983.92         | 6112.98    | 11000      | 17818  | 606.1           | 954   | .352           | .172        | 117.07                  |
| Trick Park           | 849       | 8          | 2870.31          | 398.07     | 7844       | 8858   | 637.0           | 854   | .589           | .059        | 263.78                  |
|                      | .590      | .59        | 8840.89          | 348.80     | 12977      | 11837  | 250.7           | 825   | .590           | .084        | 187.85                  |
| Bushy Park           | 130       | 130        | 18892.01         | 4253.94    | 76651      | 54581  | 425.4           | 732   | .287           | .079        | 122.35                  |
|                      | .35       | .35        | 13472.30         | 3150.70    | 3834       | 23568  | 410.3           | 360   | .397           | .139        | 221.77                  |
| Half-Way Tree        | 326       | 326        | 31316.78         | 6297.51    | 168394     | 164819 | 463.7           | 875   | .190           | .036        | 88.41                   |
|                      | .823      | .827       | 38113.38         | 5148.71    | 159762     | 138923 | 381.7           | 882   | .332           | .07         | 101.39                  |
| Bernard Lodge        | 472       | 135        | 13280.86         | 1858.08    | 59146      | 43858  | 347.1           | 798   | .325           | .039        | 118.04                  |
|                      | .399      | .183       | 19060.13         | 1853.33    | 50000      | 64970  | 328.0           | 808   | .376           | .038        | 101.39                  |
| Goshan               | 275       | 254        | 26682.91         | 3368.61    | 112871     | 108081 | 401.7           | 908   | .262           | .033        | 100.35                  |
|                      | .804      | .841       | 29940.17         | 3188.82    | 101023     | 86782  | 360.1           | 852   | .326           | .079        | 133.55                  |
| Phoenix Park         | 322       | 368        | 30848.53         | 5174.86    | 182125     | 139228 | 273.3           | 850   | .281           | .087        | 88.08                   |
|                      | .346      | .321       | 34897.37         | 4898.07    | 136291     | 114683 | 336.1           | 811   | .391           | .068        | 98.29                   |
| Lawrencefield        | 372       | 265        | 31411.89         | 3065.67    | 99790      | 86090  | 324.9           | 883   | .306           | .036        | 118.07                  |
|                      | .382      | .315       | 38874.15         | 3444.11    | 134151     | 108332 | 339.3           | 829   | .388           | .033        | 111.55                  |
| Suptce.              |           |            | 16755.52         |            |            |        |                 |       | .019           |             | 7.21                    |
|                      |           |            | 18708.04         |            |            |        |                 |       | .000           |             | 7.40                    |
| Live Stock           |           |            | 5083.04          |            |            |        |                 |       | .008           |             | 2.33                    |
|                      |           |            | 4861.55          |            |            |        |                 |       | .008           |             | 2.33                    |
| Total Period         | 274       | 2267       | 84670.25         | 26752.10   | 1076157    | 904907 | 339.3           | 841   | .291           | .078        | 109.01                  |
|                      | .834      | 211        | 24743.38         | 3088.65    | 819469     | 801938 | 378.5           | 873   | .336           | .036        | 111.82                  |
| Total Month          | 1,618     | 2664       | 17189.92         | 968.54     | 23845      | 18164  | 5.8             | 942   | .948           | .054        | 8.23                    |
|                      | .751      | 1438       | 1836.13          | 1786.31    | 16703      | 3520   | 17.0            | 849   | .350           | .030        | 14.23                   |
|                      |           |            |                  |            |            |        |                 |       |                |             |                         |
| <b>ST. THOMAS</b>    |           |            |                  |            |            |        |                 |       |                |             |                         |
| Phillipsfield        |           | 108        | 4225.30          | 992.61     | 12657      | 14385  | 131.8           | 721   | .384           | .030        | 88.1                    |
| Springfield          | 108       | 48         | 4164.43          | 476.77     | 21558      | 14994  | 357.0           | 699   | .276           | .032        | 98.80                   |
|                      | .271      | .52        | 4817.97          | 488.48     | 18022      | 14083  | 338.7           | 721   | .328           | .030        | 73.60                   |
| Albion               | 380       | 443        | 38804.15         | 5718.00    | 112123     | 99888  | 180.3           | 712   | .403           | .034        | 73.60                   |
|                      | .381      | .351       | 6974.95          | 3461.05    | 108204     | 78158  | 221.7           | 721   | .345           | .030        | 78.80                   |
| Suptce.              |           |            | 800.70           |            |            |        |                 |       | .008           |             | 1.00                    |
|                      |           |            | 1035.68          |            |            |        |                 |       | .016           |             | 1.12                    |
| Live Stock           |           |            | 58.98            |            |            |        |                 |       | .001           |             | .20                     |
|                      |           |            | 71.94            |            |            |        |                 |       | .001           |             | .20                     |
| Total Period         | 312       | 493        | 37649.24         | 2182.77    | 137765     | 94880  | 195.8           | 709   | .397           | .034        | 77.63                   |
|                      | .376      | .310       | 36913.07         | 3880.06    | 127380     | 116693 | 301.8           | 724   | .340           | .032        | 71.70                   |
| Total Month          | 2,938     | 351        | 2779.60          | 45.70      | 1176       | 1001   | 2.9             | 851   | .777           | .041        | 7.54                    |
|                      | .854      | 407        | 3709.84          | 347.48     | 8173       | 4798   | 11.3            | 779   | .322           | .031        | 8.11                    |

November 30, 1939

DATE

\* Average under irrigation included in "In Bearing" figures.  
 † Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.

FARM REPORT FOR PERIOD ENDED - NOVEMBER 1939

PRODUCT BANANAS

| FARMS                         | Cost per Ct.<br>Dyran | ACREAGE   |            | EXPENDITURE      |            | PRODUCTION |        |                | COUNT RATIO | COST PER COUNT |            | COST PER ACRE MTCE. ONLY |
|-------------------------------|-----------------------|-----------|------------|------------------|------------|------------|--------|----------------|-------------|----------------|------------|--------------------------|
|                               |                       | IRRIGATED | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems      | Counts | † Cts PER ACRE |             | FARM MTCE.     | HARVESTING |                          |
| <u>RECAPITULATION</u>         |                       |           |            |                  |            |            |        |                |             |                |            |                          |
| <u>Period - 47 Weeks</u>      |                       |           |            |                  |            |            |        |                |             |                |            |                          |
| St. Cath.                     | 274                   | 2267      | 2267       | 244270.57        | 34729.10   | 1076137    | 904907 | 399.2          | .841        | .271           | .036       | 108.02                   |
|                               | 274                   | 2121      | 2121       | 227441.28        | 30235.65   | 917419     | 802732 | 373.5          | .872        | .230           | .029       | 111.25                   |
| St. Thomas                    | 330                   | 405       | 405        | 37640.25         | 3192.77    | 133725     | 34880  | 105.6          | .709        | .367           | .054       | 77.53                    |
|                               | 330                   | 410       | 410        | 36912.20         | 3220.05    | 127280     | 102327 | 102.2          | .694        | .315           | .048       | 81.22                    |
| Total Period                  | 274                   | 2228      | 2228       | 286512.61        | 37921.27   | 1203922    | 908727 | 368.3          | .856        | .293           | .056       | 108.86                   |
|                               | 274                   | 2231      | 2231       | 285155.28        | 36525.71   | 1076599    | 905346 | 364.5          | .856        | .293           | .056       | 111.47                   |
| <u>Month - 4 Weeks</u>        |                       |           |            |                  |            |            |        |                |             |                |            |                          |
| St. Cath.                     | 1614                  | 2664      | 2664       | 17189.97         | 986.54     | 22643      | 18154  | 6.8            | .952        | .946           | .054       | 6.45                     |
|                               | 751                   | 1489      | 1489       | 21526.17         | 1236.21    | 6762       | 28240  | 17.0           | .921        | .850           | .026       | 74.26                    |
| St. Thomas                    | 3938                  | 351       | 351        | 2779.80          | 43.70      | 1175       | 1001   | 2.9            | .851        | 2.777          | .044       | 7.92                     |
|                               | 684                   | 407       | 407        | 2709.24          | 222.43     | 6172       | 4736   | 11.2           | .927        | .723           | .051       | 9.11                     |
| Total Month                   | 1,367                 | 2015      | 2015       | 19929.37         | 1052.24    | 28015      | 19185  | 2.4            | .963        | 1.042          | .052       | 8.62                     |
|                               | 782                   | 1896      | 1896       | 15722.98         | 1275.67    | 22865      | 20126  | 15.2           | .916        | .807           | .052       | 12.31                    |
| Rate of Exchange - 1939 Month |                       |           |            |                  |            |            |        |                |             |                |            | 24.017                   |
| 1939 Period                   |                       |           |            |                  |            |            |        |                |             |                |            | 24.505                   |
| 1938 Period                   |                       |           |            |                  |            |            |        |                |             |                |            | 24.919                   |

November 30, 1939

\* Average under irrigation included in "In Bearing" figures.  
† Counts, Pounds, etc.  
Use two lines for each farm. Show last year's figures in red.

1940 CROP

PERIOD COMMENCED: 5. 7. 39

UNITED FRUIT COMPANY, JAMAICA

Form 1147-S

FARM REPORT—SUGAR

DIVISION

PERIOD ENDED WITH MONTH OF NOVEMBER 1939

| NO. OF WEEKS<br>FARM                                 | SUPPORT AND CULTIVATION |                  |                 |                  |              |                       | HARVESTING   |             |                 |              |                       |              | TOTAL COST            |                 |   |           |           |  |
|--|-------------------------|------------------|-----------------|------------------|--------------|-----------------------|--------------|-------------|-----------------|--------------|-----------------------|--------------|-----------------------|-----------------|---|-----------|-----------|--|
|  | THIS YEAR               |                  |                 | LAST YEAR        |              |                       | THIS YEAR    |             |                 | LAST YEAR    |                       |              | THIS YEAR             |                 | LAST YEAR                                 |           |           |  |
| Acres<br>Mature                                      | EXPENDITURE             | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Acres<br>Cut | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Acres<br>Cut | Tons Cane<br>Produced | Coal per<br>Ton | Man Expenses<br>Exclusive of Depreciation | This Year | Last Year |  |
| BEVERLY LODGE - ST. CATHERINE DISTRICT - 49 WEEKS    |                         |                  |                 |                  |              |                       |              |             |                 |              |                       |              |                       |                 |   |           |           |  |
| Congreve Pk.   | 21                      | 691 31           | 53 92           |                  |              |                       |              | 12 58       |                 |              |                       |              |                       |                 | 703 69                                    |           |           |  |
| Twinkl.  | 100                     | 4 375            | 25 43           |                  |              |                       |              | 555 60      |                 |              |                       |              |                       |                 | 4 320 83                                  |           |           |  |
| Bassby "   | 117                     | 5 918            | 76 50           |                  |              |                       |              | 574 71      |                 |              |                       |              |                       |                 | 6 494 47                                  |           |           |  |
| Half Way Tree  | -                       |                  | 16 47           |                  |              |                       |              | 1 52        |                 |              |                       |              |                       |                 | 19 99                                     |           |           |  |
| Goshen   | 7                       | 191 54           | 27 37           |                  |              |                       |              | 14 38       |                 |              |                       |              |                       |                 | 205 05                                    |           |           |  |
| Phoenix Park   | 50                      | 1 932            | 79 38           |                  |              |                       |              | 74 06       |                 |              |                       |              |                       |                 | 2 008 08                                  |           |           |  |
| Lew' Florida   | -                       |                  | 9 23            |                  |              |                       |              | 4 63        |                 |              |                       |              |                       |                 | 13 86                                     |           |           |  |
| Marion Pen   | 982                     | 26 597           | 11 87           | 68               |              |                       |              | 3 736 22    |                 |              |                       |              |                       |                 | 40 723 33                                 |           |           |  |
| Windsor Pk.  | 397                     | 11 851           | 70 28           | 69               |              |                       |              | 1 975 43    |                 |              |                       |              |                       |                 | 15 327 16                                 |           |           |  |
| Sapuce.  |                         | 1 237            | 21 1 14         |                  |              |                       |              |             |                 |              |                       |              |                       |                 | 1 897 21                                  |           |           |  |
| Live Stock   |                         | 849 77           |                 | 51               |              |                       |              |             |                 |              |                       |              |                       |                 | 849 77                                    |           |           |  |
| Total Period   | 1674                    | 64 274           | 14 30           | 40               |              |                       |              | 6 948 99    |                 |              |                       |              |                       |                 | 71 283 13                                 |           |           |  |
| Month  | 1674                    | 3 779 91         | 2 26            |                  |              |                       |              | 321 55      |                 |              |                       |              |                       |                 | 4 101 44                                  |           |           |  |
| Date of Exchange - Month \$6.017<br>- Period \$4.456 |                         |                  |                 |                  |              |                       |              |             |                 |              |                       |              |                       |                 |   |           |           |  |

November 29, 1939

(Date)

UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1187 - BANANAS - FOR PERIOD ENDED NOVEMBER 1939

FARM REPORT INCLUDING CULTIVATION, DEPRECIATION & PROPERTY LOSSES

| <u>District</u> | <u>Acres in Bearing</u> | <u>Mainten-<br/>ance<br/>U.S.Curr.</u> | <u>Harvest-<br/>ing<br/>U.S.Curr.</u> | <u>Cult.Deprn.<br/>&amp;<br/>Prop.Losses<br/>U.S.Curr.</u> | <u>Counts</u> | <u>Cost per ct.</u>   |   | <u>Cost per acre</u>  |   |
|-----------------|-------------------------|--|---------------------------------------|--|---------------|---|---|---|---|
|                 |                         |  |                                       |  |               | <u>Mtee. Deprn.<br/>&amp;<br/>Harvig.P.Losses<br/>U.S.Curr.</u> | <u>Cult.<br/>Deprn.<br/>&amp;<br/>Only P.Losses<br/>U.S.Curr.</u> | <u>Mtee. Deprn.<br/>&amp;<br/>Only P.Losses<br/>U.S.Curr.</u> | <u>Cult.<br/>Deprn.<br/>&amp;<br/>Only P.Losses<br/>U.S.Curr.</u> |
| St.Cath.        | 2,267                   | 244,870.36                             | 34,729.10                             | 85,131.23  | 904,907       | .309  | .094  | 108.02  | 37.55   |
| St.Thomas       | 485                     | 37,643.26                              | 3,192.77                              | 14,221.67  | 94,820        | .431  | .150  | 77.63   | 29.33   |
| TOTAL.          | 2,752                   | 282,513.61                             | 37,921.87                             | 99,352.90  | 999,727       | .321  | .099  | 102.66  | 36.10   |

Farm cost includes treating "Leaf Spot" and "Panama Disease",  
which work out at \$.052 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popenco

Kingston, JAMAICA  
November 30, 1939

Kingston,

December 2nd 1939

Dear Dr. Popenoe,

I hope Mrs Popenoe and yourself reached Guatemala City safe and sound. I feel sure you will both be very pleased to get settled down in your own home once again.

I spoke to Mr. Bradshaw with reference to keeping you fully advised on Leaf Spot happenings in Jamaica, and naturally he readily agreed. On the more important subjects he will sign the letters, but on the smaller subject which I know you will be interested in, I will do my best to keep you fully advised.

U. Theo McKay - I enclose a letter received the day after you left the island. I have not been able to see him for some time, but hope to next week.

E. G. Miles , Gosling River - The pump arrived at Morant Bay and the Board advised accordingly. So far the Board has not taken any steps to recall the "99" and issue a Drake & Fletcher Headland.

E. L. Allen - Equipment taken delivery of by him after waiting nearly a month. We have received a letter from him this morning complaining that he has not received his registration card for materials. We received a similar complaint during the week from David Roberts, Angels. The Board are still very slow in issuing cards in spite of our looking after agreements and receipts for them.

P.E. Browne, Cook's Bottom - I noticed in the Cleaner that this property is advertised for sale. Very little was said about the land or banana cultivation, but spraying equipment, hose and guns formed the major part of the advertisement - a thing, I believe, which should have been left

unsaid.

Grieve is fully installed at Oracabessa and has been travelling around and visiting contractors with Blake Morris, until he becomes familiar with the districts etc., over there. He will commence inspections on the 4th.

Box came in from Christiana this morning looking the picture of health and a splendid example of Pauline's care and attention. The Spaldings growers feel that their noses have been put out of joint by their not having a supply depot, the same as the Christiana people. When we have more equipment issued in this area I will certainly take up this point with the Control Board on their behalf.

The inspection of cultivations is still very slow. Up to the present, since the new order was put in force, we have approximately 130 applications before the Board and only 30 approvals so far. The delay seems to be between the Control Board and this office, as the inspectors are covering the ground rapidly. We obtained authority during the week to issue on our recommendation the Friend Spray pump at Montego Bay for the use of Stanley Foster and his tenants, total acreage 70. I know Foster very well and I feel sure he will look after this machine and do a good spray job. I also saw Pocock in town during the week. Small cultivators in the West End are certainly against knapsacks. I think the knapsacks would not be so objectionable to them if there was no other equipment, but they seem to study equipment issued by the other companies and, naturally, when they compare ordinary pumps with knapsacks they see the difference right away.

Argles is still very cheeseparing, and only wants G.N. Turner, who has a large property in St. Catherine, to be supplied with a Knapsack on account of his saying that for the present he only wanted to

spray 12 acres. Turner usually has 100/150 acres in constant cultivation. Our recommendations were for a Barrel Pump to spray 17 acres, which I expect we shall eventually get from the Board.

Growers in the country are still very busy cleaning up their cultivations. Many of the large properties have not got all the storm damage chopped up yet, but promised to make a start in spraying as soon as this has been done.

McNeil has still not sprayed. Scarlett's application for a Hardie 99 has been approved.

The Control Board has requested us to take over the balance of equipment which we are entitled to from Reginald Aitken's store at the railway, as they require this shed for spray materials storage purposes.

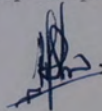
Well, Dr. Popenoe, I am afraid I will have to end now. You must excuse this letter as it is rather rambling, jumping from one subject to another, but as you remember how our office is on a Saturday morning when we have many visitors and endeavour to do a full day's work in a half day. Mrs. Sharpe send her warmest regards to Mrs Popenoe and yourself and is, like myself, looking forward eagerly to the day both of you return. There have been several amusing mistakes in the Gleaner recently. I attach one of the badly worded articles; the other I am afraid is too shocking to send through the post.

The Government is now operating a small broadcasting station in Jamaica, and advising the people of the maximum selling prices of food etc., and short talks on agricultural matters. Perhaps this will be an excellent opportunity for planters to be advised to keep on spraying etc., in connection with the Government Leaf Spot Campaign.

*Love from me - P.S.*

With warmest personal regards,

Yours very sincerely





# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

December 2nd 1939

Dear Dr. Popenoe,

Here are one or two things that have cropped up since you left which might be of interest to you.

Enclosed are rainfall reports for the weeks ending November 25th and December 2nd. As you will notice, last week we again had very heavy rains throughout the island, particularly in the East End, St. Catherine, Central Parishes and north coasts; roads were very badly scoured, but fortunately there were no further fruit losses. Temperatures recently have been running low and weather conditions in general appear to have made a change. It will be very interesting watching the behaviour of cercospora from now onwards, especially in the higher altitudes.

Growers have done very little spraying for the month of November owing to weather conditions, but expect to make an early start now the weather is more settled. H. G. DeLisser, for example, was not able to do any spraying. Percy Lindo's properties were also not sprayed, which now makes three months since they were last done. We were able to spray in St. Catherine only 1,042.25 acres, and nothing in St. Thomas.

The Legislative Council held a special session and after considerable discussion, principally by the Elected Members of St. James and St. Catherine, the Council voted £100,000. to aid distressed banana planters and fishermen, and a like amount to agriculturists to encourage

them in food production.

The loans to banana planters will be made through a network of fifty-eight offices of the Agricultural Loan Societies. The larger planters will obtain loans direct from the Banana Industry Aid Board, and rates of interest to be charged, in the case of personal security, will be  $7\frac{1}{2}\%$  and 6% in landed security. The Elected Members tried to get a set amount to be loaned per acre but the Banana Industry Aid Board rightly ruled that each case should be treated on its own merits. The honourable member for St. James stressed that the amount per acre on this occasion should be higher as banana planters now had to expend from £2.15.0., to £5. for spraying. This added expense they had not to deal with when considering applications for loans for restoring storm damaged cultivations previously.

I feel that when this money is put into circulation there is some likelihood of certain of the more progressive planters concentrating on spraying. Recently there has been a drop in price of fruit of 9d. per count; this, I am afraid, will make some of the smaller planters slow up in spraying.

At the request of the Control Board Mr Munro submitted a very interesting report on the Hardie No.6 Barrel Pump. He considers this pump to be very suitable for the type of operator who will be using it. In comparison with the Edwinston pump the advantages are many, particularly in that there are few working parts to get out of order and any repairs can be done quickly, easily and cheaply. He estimates the life of this pump to be thirty months. The approximate cost per month of the Edwinston pump, based on an estimated life of twenty-one months, is  $9/3\frac{1}{2}$ d, and that of the Hardie No.6  $2/0\frac{3}{4}$ d. These costs are exclusive of hose or guns.

Mr. Reginald Aitken advises that he is getting down some smaller editions of the Hardie No.6 Barrel Pump; they are known as the " $4\frac{1}{2}$ 's" and

cost approximately \$8. When these arrive we will have them thoroughly tried out by Messrs. Butler and Munro. These pumps may possibly supersede the knapsacks. Unfortunately many growers in the Central Parishes and West End of the Island are kicking pretty badly at the Knapsacks, which we considered to be the most suitable type of equipment when they were ordered. We are endeavouring to get the Board to approve of the issue of four Drake & Fletcher Headlands to be used in conjunction with the Knapsacks under the Blanket System on the Montego Bay Line, which Clifford DeLisser operates.

The Control Board recently have come across quite a number of cases where contractors do not wish to spray owing to the storm. The Board have asked us to make certain that contractors would be willing to spray if issued with equipment now, before carrying out the necessary inspection.

A rather unfortunate article appeared on the front page of the "Gleaner" mentioning that the Leaf Spot officers have been informed by the Control Board to cease checking up on properties for incidence of Leaf Spot throughout the Island. Mr Croucher has advised me this article is entirely wrong and had it contradicted this morning.

Up to the present we have not been able to obtain the actual expenditure figure for equipment and materials received from the Board, but we have been promised the correct figure in a few days' time.

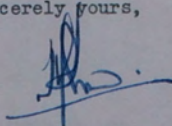
Recently the Board has been receiving fairly heavy shipments of copper and lime, and are now hard-pressed for storage space.

The Perenox with the special filler, supplied free of cost by the I.C.I., is now in the Island and will be reported on by Mr Butler in due course.

I will endeavour to keep you fully posted on matters  
in which I know you will be interested.

With kindest regards,

Sincerely yours,



Dr. Wilson Popenoe  
c/o The United Fruit Company  
Guatemala City  
Guatemala, C.A.

MAXIMUM AND MINIMUM TEMPERATURES AND RAINFALL - W/E NOVEMBER 25th 1939

| Station                | Dist. No. | Temperatures - Week |      | Week  | Rainfall |        | Rainfall - Period through November |        |        |        |  |
|------------------------|-----------|---------------------|------|-------|----------|--------|------------------------------------|--------|--------|--------|--|
|                        |           | Max.                | Min. |       | Month    | 1939   | 1938                               | 1937   | 1936   | 1935   |  |
| Green Island           | 1         | 88                  | 76   | 2.40  | 11.44    | 102.64 | 71.50                              | 82.71  | 80.30  | 64.27  |  |
| Montego Bay Valley     | 2         | 90                  | 72   | 1.90  | 12.56    | 71.21  | 66.02                              | 101.26 | 92.75  | 91.03  |  |
| Catadupa               | 3         | 88                  | 68   | 2.56  | 26.45    | 126.99 | 79.60                              | 114.07 | 104.44 | 93.54  |  |
| Baerclava              | 4         | 88                  | 66   | 5.09  | 20.79    | 96.44  | 56.37                              | 87.61  | 93.11  | 71.47  |  |
| Spellings              | 5         | 85                  | 62   | 9.68  | 34.02    | 85.01  | 55.43                              | 62.19  | 103.39 | 72.12  |  |
| St. Ann's Bay          | 6         | 95                  | 71   | 11.37 | 25.68    | 61.84  | 38.57                              | 65.20  | 53.15  | 46.00  |  |
| Oracabessa & Pt. Maria | 7         | 98                  | 73   | 9.32  | 18.56    | 56.37  | 52.49                              | 73.06  | 63.14  | 58.42  |  |
| Hightgate              | 8         | 90                  | 70   | 9.60  | 27.26    | 70.65  | 50.52                              | 65.14  | 70.48  | 58.28  |  |
| Troja & Riversdale     | 9         | 89                  | 69   | 11.12 | 30.43    | 65.48  | 52.73                              | 71.07  | 70.08  | 72.83  |  |
| Toro                   | 10        | 88                  | 68   | 10.72 | 31.39    | 42.83  | 32.07                              | 35.76  | 51.42  | 29.00  |  |
| Lower St. Catherine    | 11        | 92                  | 68   | 19.45 | 40.35    | 57.85  | 28.42                              | 35.53  | 48.56  | 30.29  |  |
| Portland               | 12        | 83                  | 74   | 26.85 | 45.14    | 101.84 | 102.68                             | 125.02 | 150.68 | 129.69 |  |
| Albion                 | 13        | 84                  | 74   | 10.21 | 38.17    | 51.98  | 35.60                              | 45.05  | 54.38  | 44.21  |  |
| Morant Bay             | 14        | 86                  | 72   | 11.10 | 50.38    | 81.02  | 41.78                              | 61.39  | 65.22  | 67.19  |  |
| Bowden                 | 15        | 88                  | 73   | 6.50  | 28.05    | 65.73  | 40.52                              | 76.31  | 76.43  | 72.07  |  |
|                        |           |                     |      | 9.86  | 29.25    | 75.68  | 53.48                              | 73.49  | 78.50  | 66.69  |  |

November 25th 1939

Copy to Mr. C. B. Taylor

J A N A I C A

MAXIMUM AND MINIMUM TEMPERATURES AND RAINFALL - W/E DECEMBER 2nd 1899

| <u>Stations</u>        | <u>Mts.</u> | <u>Temperatures</u> |             | <u>Rainfall</u> |               |
|------------------------|-------------|---------------------|-------------|-----------------|---------------|
|                        |             | <u>Max.</u>         | <u>Min.</u> | <u>Week</u>     | <u>Period</u> |
| Green Island           | 1           | 88                  | 74          | 1.20            | 103.94        |
| Montego Bay Valley     | 2           | 90                  | 68          | .90             | 72.11         |
| Catadupa               | 3           | 88                  | 70          | .24             | 127.23        |
| Belinlawa              | 4           | 90                  | 66          | .63             | 97.12         |
| Spaldings              | 5           | 72                  | 61          | .60             | 83.61         |
| St. Ann's Day          | 6           | 94                  | 70          | 2.85            | 64.69         |
| Oracabessa & Pt. Maria | 7           | 96                  | 71          | 1.00            | 57.57         |
| Hedgegate              | 8           | 92                  | 68          | 7.00            | 77.65         |
| Troja & Riverdale      | 9           | 93                  | 67          | 5.22            | 70.70         |
| Vere                   | 10          | 88                  | 66          | -               | 42.83         |
| Lower St. Catherine    | 11          | 90                  | 64          | -               | 57.35         |
| Portland               | 12          | 81                  | 70          | 1.93            | 103.77        |
| Albion                 | 13          | 88                  | 72          | -               | 51.98         |
| Morent Day             | 14          | 84                  | 72          | .23             | 81.25         |
| Bowden                 | 15          | 86                  | 71          | .15             | 65.68         |
|                        |             |                     |             | <u>1.43</u>     | <u>77.16</u>  |

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

18th December, 1939.

VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice-President,  
United Fruit Company,  
Boston. Mass.

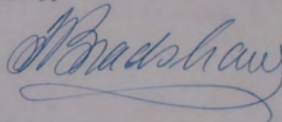
Dear Mr. Pollan:

I forward herewith copy of letter to me from Mr. Butler in regard to the proposed employment of a Mr. Clifford H. Meredith for 2 or 3 days weekly for the study of Sigatoka. I also enclose letters from Mr. Meredith giving his qualifications. Dr. Popenoe met Mr. Meredith in Jamaica and put him in touch with Mr. Butler. Mr. Meredith has since been working with Mr. Butler and they have succeeded in producing the conidial form of *Cercospora Musae* in pure culture and we believe very valuable information can be secured by having Mr. Meredith persue these studies.

I have personally interviewed Mr. Meredith, who impresses me very favorably indeed. In order to secure his services for the 2 or 3 days per week we will have to pay him \$3. per day. In addition to this we will have to purchase about \$200.00 worth of laboratory equipment.

In my opinion the expense involved would be more than justified and I would request Mr. Turnbull to telegraph you the approval of himself and Messrs. Popenoe and Dunlap or otherwise. If after hearing from them you approve this expenditure, will you please advise me as soon as possible?

Yours very truly,



Copy to Mr. W. E. Turnbull ✓  
Dr. W. Popenoe  
Dr. V. C. Dunlap

Enclosures.

C O P Y.

Happy Grove School

Hector's River, P.O.

Jamaica, B.W.I.

December 16, 1939.

Mr. Thomas Bradshaw  
United Fruit Company  
Kingston.

Dear Mr. Bradshaw:

After our conference I talked with Alfred F. Butler as you suggested. We discussed the following points:

1. The *Cercospora* Leaf Spot of Bananas is established in Jamaica.
2. The *Cercospora* Leaf Spot can be controlled by spraying.
3. There needs to be a careful study of the organism *Cercospora musae* which causes the disease.
4. Our efforts should be directed toward a lower cost effective control.
5. A Low Power Binocular Microscope is needed at the Cedar Grove Experiment Station.

I have had fifteen years of farming experience before I entered Plant Disease work. On September 1, 1938 I resigned from the staff at Iowa State College and became Science Master at Happy Grove School which position I hold at present.

Five years ago I isolated the Panama Disease organism at Highgate in St. Mary and used these cultures to work out a thesis on the growth of the organism through the soil.

I have been closely associated with the control of *Cercospora* Leaf Spot of Sugar-beets in Northern Iowa. We were able to get control, a higher per cent sugar content and greater tonage per acre.

At present I can give two days per week to plant disease work at Cedar Grove. I will also be conducting similar work in my own laboratory at Happy Grove School. I should receive £2:0:0 per day with £1:0:0 per day traveling expense for work at Cedar Grove Experiment Station.

If this arrangement is satisfactory Butler can telegraph me and I will start Wednesday December 20.

Yours truly,

(Signed) Clifford H. Meredith.



1. Name: Clifford H. Meredith
2. Age: 44. Date of Birth: March 29, 1895.
3. Place of Birth: Lynnville, Iowa, U.S.A.
4. Married; No children.
5. Race: White (English and Welsh decent)
6. A member of the Society of Friends (Quaker)
7. Education:
  - (a) Lynnville High School
  - (b) B.Sc. and M.Sc. from Iowa State College at Ames, Iowa.
  - (c) Two years credit toward a Ph.D. in Plant Pathology with minors in Soils and Zoology.
8. Publications:
  - (a) A Sugar-beet Root Rot caused by Aphanomyces cochlioides.
  - (b) Pythium de baryanum and Other Species Cause Alfalfa Seeding Damping off.
  - (c) Phycomycetas in Iowa Soil.  
a, b, and c present<sup>98</sup> at Indianapolis, Indiana, Dec. 27-30, 1937.
  - (d) Thesis: The Growth of Fusarium Oxysporum Cubense in the soil.
9. Appointments:
 

|   |       |                    |
|---|-------|--------------------|
| (a) Research Fellow                       | -     | Iowa State College |
| (b) Research Graduate Assistant           | .. .. |                    |
| (c) Research Assistant                    | -     | .. ..              |
| (d) Science Master at Happy Grove School, |       | Hectors River.     |
10. References:
 

I. E. Melhus, Botany and Plant Pathology, Ames, Iowa.  
 Carl J. Drake, State Entomologist, Ames, Iowa.  
 F. B. Smith, University of Florida, Gainesville, Florida.

C O P Y.

Happy Grove School,  
Hector's River, P.O.  
Jamaica, B.W.I.

December 16, 1939.

Dr. Vining C. Dunlap  
Research Department,  
United Fruit Company  
La Lima, Honduras.

Dear Dr. Dunlap:

Mr. Bradshaw suggested that I make some statement by way of introduction.

After fifteen years of farming in Iowa I returned to college and received a B.Sc. with a major in Botany at Iowa State College at Ames. For my M.Sc. I majored in Plant Pathology with Plant Physiology and Biochemistry as supporting subjects. I continued my work and have two years credit toward a Ph.D. with a major in Plant Pathology and minors in soils and Zoology.

with

My research work has mostly been Pythium, Phytophthora, and Fusarium oxysporum cubense. You will find abstracts of these papers in Phytopathology give at Indianapolis in 1937.

The Cercospora Leaf Spot of Bananas is taking the centre of the stage in Jamaica now. I would like to receive any comments that you have to make on this problem.

Yours truly

(Signed) Clifford H. Meredith.

C O P Y.

Happy Grove School,  
Hector's River, P.O.,  
Jamaica, B.W.I.

December 16, 1939

Dr. Wilson Popenoe  
Tela, R.R. Co.  
La Lima  
Republic of Honduras.

Dear Dr. Popenoe:

At your suggestion Mr. Butler and I tackled the problem of conidia production of Cercospora musae in pure culture. The conidia were first observed in culture on December 5 we used banana leaf agar.

Enclosed you will find a copy of "The production of Cercospora musae conidia in banana leaf agar".

Please send along any suggestions that you have for Cercospora work.

Yours truly,

(Sgd) Clifford H. Meredith.

C O P Y.

THE PRODUCTION OF CERCOSPORA MUSAE CONIDIA

IN BANANA - LEAF AGAR  
by

Clifford H. Meredith, Science Master, Happy Grove School, and Alfred F. Butler, Agronomist in Charge, Cedar Grove Experimental Station, Research Department, United Fruit Co.

The work with Cercospora musae has been retarded due to the difficulty experienced in producing conidia by artificial means. This difficulty has, also, been experienced in the study of other varieties of Cercospora. Normal conidia of six species of Cercospora were produced in pure culture by Nagel with potato-dextrose and sugar-beet-leaf agar.

The medium used to produce conidia of Cercospora musae consisted of a section of banana leaf 8" x 12" finely cut and boiled with 500 c.c. of distilled water for 5 minutes. This water was drained off and used to make up a litre of solution by adding distilled water and 2 per cent melted agar agar (Nagel used 1.2 and 1.5 per cent). The water was distilled in Pyrex glass and copper was not allowed to come in contact with the medium.

The conidia for seeding were obtained from banana leaves with typical Cercospora leaf spots that were held under moist conditions for 15 to 20 hours. A loop of steril distilled water was brushed over the spot and transferred to the tube before slanting. The tubes were held in a battery jar with a glass lid.

Black spots appeared after four days that proved to be a mass of dark mycelium on which were many conidia. Conidia were observed each day for five days. In some cultures conidia were not observed until the fifth and sixth day after seeding.

Literature cited: Clatus M. Nagel, Conidial production in species of Cercospora in pure culture, Phytopathology, October 1934, Vol. XXIV, No. 10, pp. 1101-1110.

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANAB"

THOMAS BRADSHAW  
MANAGER

PERSONAL

JAMAICA DIVISION  
KINGSTON, JAMAICA

December 21st 1939

Dear Dr. Popenoe,

Very many thanks for your interesting letter of the 16th instant. I intended writing you at the end of last week, but I have been exceptionally busy lately; owing to Platt being off the island for a couple of weeks I am doing my best to carry both jobs.

In case you have not heard, I am very pleased to advise you that Mr Bradshaw was married yesterday over in St. Ann's. The entire staff are very pleased about this.

To get down to business, I enclose the Rainfall Reports for weeks ending the 9th and 16th instant. You will notice that now the heaviest rain has been falling in St Ann's, Oracabessa, Port Maria and Portland areas. As I mentioned in my last letter, the weather has certainly made a decided change. The early mornings are very cold, so I do not think Leaf Spot will progress very much during the winter months. Unfortunately some planters have an idea in their heads now, as they do not notice heavy infection in their fields, that the recent storms have blown away all the leaf spot, forgetting entirely that all the badly infected trees were blown down. It will be a different story in six months' time.

I am afraid when the time comes for E.G. Miles to inaugurate the Drake & Fletcher you and I will be too old to enjoy it, besides, our beards will get in the way of the pump handles. We advised the Board some time ago that the Drake & Fletcher was at Morant Bay awaiting delivery to Mr Miles by their representative, and not hearing anything from the Board I reminded Mr. Croucher the other day about it, but so far nothing has been done. I am glad to say Weyrauch's application has been approved for a No.6 Barrel pump. The Board has authorized the issue of 29 kegs Perenox per month for the entire Bernard Lodge Farm. We really asked for 31 kegs; if we find we cannot get through with 29 we will certainly ask for an increase. The Board readily approved of the issue of 4 Drake & Fletcher Headland Pumps to be used under the Blanket System from Stonehenge to Anchovy. Mr Bradshaw was also very keen that Pocock should have these. C.H. Scarlett's application as been approved for a Hardie 99. Grieve and Townsend visited Mount Olive and Pear Tree Grove last Friday and jointly demonstrated the whys and wherefores of equipment maintenance and correct spraying technique. Our friend McNeil has at last decided to commence spraying, incidentally after Mr. Bradshaw gave him a much needed jacking up. The amended account came in from S.C. Black & Co., for £158.5.0., covering 3 "Friend" units complete. The Control Board is sending their cheque direct to Black.

The Board has approved of the purchase of 200 barrel pumps for our use. They are still doing their best to obtain these from England, but will get them from other sources if the quantity and type are not available in the

United Kingdom. Mr Croucher believes that most of them will come from the States, and will be in Jamaica during March 1940.

Mr. Aitken has not yet received the sample shipment of "41" Barrel Pumps, but he expects they will be in over the week end and will cost approximately £3,14.0., including 50ft of 200lb pressure hose, galvanised iron 1/4inch pipe and shutoff cock. I will give this pump a good trial at Watson Grove, and will advise you further of the findings of Messrs. Butler, Munro and myself. Perhaps this may be the solution to a knapsack outfit, which is becoming more and more disliked every day.

Messrs. Garcia and Robertson have applied for a patent covering their "invention or discovery of composition of matter for the cure and/or treatment of Leaf Spot and other plant diseases or infections". A hopeless proposition, but they are still trying to convince the unintelligent what a wonderful cure they have.

No doubt you have already heard from Mr. Butler advising you of the successful achievement of Mr. Meredith and himself in producing the conidia of cercospora in pure culture. This is certainly very interesting, and opens the study of cercospora from an entirely different angle.

During November the acreage sprayed was very disappointing -

|                                       |              |
|---------------------------------------|--------------|
| Montego Bay Survey                    | 1,660 acres  |
| Bowden                                | 4 "          |
| St.Catherine & Vere (our contractors) | 706 "        |
| Kendal                                | 11           |
| Total contractors                     | <u>2,381</u> |
| Our farms, including week ending      |              |
| December 2nd                          | <u>2,402</u> |
| Grand Total                           | <u>4,783</u> |

Most of our contractors have been concentrating on cleaning up their cultivations after the storms. Present indications are that the December spray figures will be much better.

Up to now your friend Mrs Crooks has not been able to give us the actual expenditure on equipment and spray materials to the Company's contractors up to the 31st October. So far she thinks that the actual expenditure for equipment up to October 31st is £7,690. 1. 2. Cost of materials supplied to follow.

The Control Board has forwarded about 2,000 application forms for materials to us to be distributed amongst our contractors: they have done the same with the other two companies and all the station agents who issue materials. The growers have to state that they are desirous of obtaining so much materials; that they have so many pounds of copper sulphate and lime or Perenox left from the previous issue. In event of their not having sprayed the entire acreage of banana cultivation during the last three or four weeks they must state why. Mr Croucher issued these forms without obtaining our comments beforehand. I have since explained to him that at least 75% of our contractors will not be able to understand or fill up the forms, which will mean that our storekeepers or station agents will have to fill up a complete set of forms on each occasion that a contractor wants to draw materials. He has also pointed out that we can not refuse to deliver materials to a contractor when he applies for same, even if his form indicates that he has a considerable quantity of materials on hand

from the last issue. Personally, I do not see these forms will serve any useful purpose unless they are properly scrutinised by some member of the Control Board before deliveries are made. I believe it is the intention of the Control Board to watch the larger growers more carefully.

Mr Croucher is very pleased that you have arranged to forward tung oil seeds (Aleurites trisperma) for him.

Well, Dr. Popenoe, I shall have to finish this sermon. I have given you the points which I think will be of interest to you as they have cropped up. I have given your message to Mrs Sharpe, who has a very much brighter face now that Mass Vivian has returned from his pleasant (!) sojourn, where he met some friends of yours.

By the way, the fruit shipments recently have been very poor, and are likely to be for some time to come - one English ship for the entire island every two weeks. Personally, I do not believe Jamaica will be able to produce more than 12 million stems for 1940, as the shipments will not start to increase to any considerable extent before May of next year at the earliest.

Mrs Sharpe joins me in wishing Mrs Popenoe and yourself a very happy Christmas and prosperous New Year.

Yours very sincerely

P.S. U. Theo McKay has been on the sick list since last week, but is progressing nicely. I will give him your message.

I do not think that you put your foot into anything while you were in Jamaica - anything you said or did was done in a very nice diplomatic way, and I know people in and out of the Company appreciated fully that you were here to help them in their many problems, and knew that you could back up any opinions expressed by actual facts.

The Board has recently advised us that if a contractor does not draw his full allotment of materials during the month, he cannot make up any shortage in subsequent months. I think this is a very wrong move because contractors now, even if they do not spray, will draw their full quantities each month, and perhaps in a few months time be able to supply the Board with materials. During November our contractors certainly did not draw materials when they were not spraying. The Board also complains that growers, who are not even registered, have recently been supplied with materials - this certainly does not refer to depots under our control. According to Mr Sharp Springvale Ltd is still without spraying materials.

J A M A I C A

MAXIMUM AND MINIMUM TEMPERATURES AND RAINFALL - W/E DECEMBER 16th 1938

| <u>Stations</u>        | <u>Dist.</u><br><u>#</u> | <u>Temperatures</u> |             | <u>Rainfall</u><br><u>Week</u> | <u>Period</u> |
|------------------------|--------------------------|---------------------|-------------|--------------------------------|---------------|
|                        |                          | <u>Max.</u>         | <u>Min.</u> |                                |               |
| Green Island           | 1                        | 86                  | 74          | .48                            | 104.47        |
| Montego Bay Valley     | 2                        | 88                  | 68          | .86                            | 72.97         |
| Catadupa               | 3                        | 82                  | 65          | .38                            | 127.67        |
| Belairava              | 4                        | 86                  | 62          | .85                            | 97.95         |
| Spaldings              | 5                        | 80                  | 64          | -                              | 84.99         |
| St. Ann's Bay          | 6                        | 96                  | 75          | 1.27                           | 69.11         |
| Oracabessa & Pt. Maria | 7                        | 98                  | 72          | .63                            | 59.55         |
| Hilgate                | 8                        | 90                  | 69          | 2.37                           | 62.67         |
| Troja & Riverdale      | 9                        | 85                  | 74          | .77                            | 74.64         |
| Vere                   | 10                       | 86                  | 67          | .10                            | 42.93         |
| Lower St. Catherine    | 11                       | 89                  | 67          | .06                            | 57.97         |
| Portland               | 12                       | 82                  | 70          | 1.67                           | 107.32        |
| Albion                 | 13                       | 86                  | 72          | -                              | 51.98         |
| Morant Bay             | 14                       | 84                  | 71          | -                              | 81.70         |
| Dowden                 | 15                       | 84                  | 73          | .90                            | 66.78         |
|                        |                          |                     |             | <u>.60</u>                     | <u>78.75</u>  |



J A M A I C A

MAXIMUM AND MINIMUM TEMPERATURES AND RAINFALL - W/E DECEMBER 9TH 1939

| Stations               | Dist. # | Temperatures |      | Rainfall         |
|------------------------|---------|--------------|------|------------------|
|                        |         | Max.         | Min. | Week Period      |
| Green Island           | 1       | 84           | 72   | .15 103.99       |
| Montego Bay Valley     | 2       | 88           | 70   | - 73.11          |
| Catadupa               | 3       | 86           | 68   | .16 127.39       |
| Balaclava              | 4       | 88           | 64   | - 97.12          |
| Spaldings              | 5       | 84           | 62   | 1.13 64.99       |
| St. Ann's Bay          | 6       | 98           | 71   | 2.15 66.84       |
| Oracabessa & Ft. Maria | 7       | 97           | 73   | 1.55 53.92       |
| HIGHgate               | 8       | 90           | 63   | 2.65 30.30       |
| Troja & Riversdale     | 9       | 91           | 67   | 3.17 73.87       |
| Vere                   | 10      | 88           | 66   | - 42.83          |
| Lower St. Catherine    | 11      | 89           | 64   | .06 57.91        |
| Portland               | 12      | 85           | 70   | 1.98 105.65      |
| Albion                 | 13      | 88           | 72   | - 51.98          |
| Morant Bay             | 14      | 84           | 72   | .45 61.70        |
| Bowden                 | 15      | 87           | 72   | - 65.88          |
|                        |         |              |      | <u>.89 79.05</u> |

D. Forester.

Copy of letter from Mr. A. McIlwaine to Mr. Reginald Aitken.

Montego Bay

December 19th 1939

Dear Mr. Aitken,

Many thanks for your letter of December 13th., and the improved strainer.

I tried the strainer this morning and was very pleased with what I saw. As you suggested I tried it after taking out the nozzle screws. It may be my imagination but it seemed to me that the rod with the strainer gave a better spray than the other one. It appeared to me that the Bordeaux atomised as soon as it was clear of the disc, and not about a foot away, as was the case with the ordinary spray gun.

Being able to do away with the nozzle screws is a big advantage. It has been my experience here and in St. Catherine, that Spraymen either cannot be bothered cleaning the screws or damage them to such an extent that they are useless as strainers. The improved strainer you sent is almost fool-proof and very easy to clean.

I have left the strainer with Mr Groskery of Hazelymph Farm to try out for a few days. He is very impressed with what we saw this morning, and is thinking of ordering half a dozen. If you have a stock of them perhaps you would get in touch with him at the address mentioned, Cambridge is his P.O.

I am sorry the Estate Pump has given you cause for worry. We tried to get the Board to buy it for Mr. Mills, but they turned this down. Mr. Mills is very anxious to keep the pump, and has promised to get in touch with you with a view to buying it.

Yours sincerely,

(Signed) A. McIlwaine

Mr. Aitken requested me to forward copy of Mr. McIlwaine's report to you. He wonders if these improved strainers would be of service to the Company in Central America.

Kingston. Jamaica.

22nd December, 1939.

Mr. W. E. Turnbull  
Dr. W. Popenoe ✓  
Dr. V. C. Dunlap

The attached was omitted in error from my letter  
of 18th instant to Mr. Pollan with a copy to you.

C O P Y.

Cedar Grove Experiment Station,  
Gregory Park P.O.

December 19th, 1939.

Mr. Bradshaw:

As you are aware we have recently been able to produce the conidial form of *Cercospora musae* on artificial media at Cedar Grove. This opens up the possibility of a more careful study of the life history of *Cercospora musae* than has hitherto been possible. In the past, although various research workers have been able to take conidia from the black spots that appear on the banana leaf and grow them on artificial media, the fungus has just gone on growing and refused to produce more conidia in culture. Since the conidia are the means by which the fungus spreads itself around the banana areas this is really the most important part of its life history, and if more were known regarding the conditions which cause the production of conidia and the conditions which permit the conidia to attack the plant it is not unlikely that some saving could be made on our control program.

Why we have been successful where others have failed is probably sheer luck.

By growing the fungus in pure culture and obtaining conidia for investigational work from pure cultures the entire life history of the organism from conidia to conidia can be observed, and probably definite information obtained of the various conditions which either check its growth or cause the sudden flare up that we observe at certain times of the year. For example, it can be cultured under varying combinations of temperature and humidity.

From the Company's standpoint there appears to be at least three reasons why a more complete laboratory study should be undertaken.

(1) In order to satisfy ourselves that the control measures we have used successfully cannot be applied with greater economy.

(2) In order to anticipate with greater accuracy the performance of Cercospora in any new areas the Company may contemplate planting in the future.

(3) In order to produce as a Fruit Company publication the best and most complete scientific paper that can be published regarding an organism which threatened the industry with quick destruction and which was successfully combatted.

Considering the vast expenditures of money that we have been forced to undertake to combat this pest, we know remarkably little about it and we have been able to observe its performance only under the conditions of temperature and humidity that have prevailed since 1935. Personally I should like to know what is likely to happen if we have 3 or 4 very wet or very dry years consecutively. We might get some idea of this from a more detailed observation of the organism.

Yours sincerely,

(Signed) Alfred F. Butler.

Kingston,

April 25th 1940

Mr. T. Bradshaw:

In accordance with a request received from Boston I am offering an independent estimate of production for the remaining eight months of this year, and for the period May 1st 1940 to April 30th 1941. These estimates are based entirely upon what I have seen during the past week. I have visited practically all the important centres of production, and have tried to keep in mind the following factors:-

- (1) Extent of recovery from the storms of last autumn
- (2) Extent of abandonments - whether due to Leaf Spot damage or other causes
- (3) Relative extent of new plantings in 1939 and 1940
- (4) Progress of Leaf Spot throughout the Island

The following is my estimate for total production during the year 1940 - this includes actual shipments to date, of course.

| <u>Month</u>       | <u>No. Weeks</u> | <u>Average per Week</u> | <u>Total</u> |
|--------------------|------------------|-------------------------|--------------|
| May                | 5                | 100,000                 | 500,000      |
| June               | 4                | 125,000                 | 500,000      |
| July               | 4                | 175,000                 | 700,000      |
| August             | 5                | 225,000                 | 1,125,000    |
| September          | 4                | 250,000                 | 1,000,000    |
| October            | 4                | 325,000                 | 1,300,000    |
| November           | 5                | 325,000                 | 1,625,000    |
| December           | 5                | 275,000                 | 1,375,000    |
| Total 8 Months     | 36               |                         | 8,125,000    |
| January - April 17 |                  |                         | 785,600      |
| Total Year         |                  |                         | 8,910,600    |

I have not attempted to estimate by weeks or months total production during the first four months of 1941, but I am allowing slightly more than four million stems on my estimate for the period.

We therefore have the following:-

Estimated total production May 1st 1940 to April 30th 1941 - 12,500,000 stems

The present situation throughout the Island, as I see it, can be summarised as follows:-

St. Catherine is coming back rapidly; you know all about this.

St. Thomas and Portland impressed me as in promising condition. The fruit looks good and Leaf Spot is making few and localised gains. This region I feel should give a good account of itself during the next twelve months.

St. Mary is definitely backward. Influenced in large part by the severe drought of last year, recovery is proving to be slow. In Lower St. Mary the situation as regards Leaf Spot does not appear to be grave, but little fruit has shot as yet and I cannot see much of a crop coming off before September. In Upper St. Mary Leaf Spot is doing more damage.

Christiana & Kendal area has begun to pick up during the past few weeks, but few plants are shooting as yet, and, taking the altitude into consideration, I cannot see much fruit before October. Leaf Spot infection is abundant in this area but from experience we know that there is a possibility of its causing considerably less damage than in some other parts of the Island.

Montego Bay Valley, Kenilworth and a number of other sprayed plantings in the west end are coming back in good shape, but Leaf Spot has taken heavy toll in most of the smaller plantings, many of which are in a semi-abandoned condition. All in all, I feel we must expect a heavy drop in production throughout the west end.

I understand that my estimates are lower than some others which have recently been made. In making them low I am to a certain extent gambling on this year's weather. We have had two dry years; these have greatly diminished the extent of Leaf Spot damage in many areas. If this year is as dry as these last two my figures will probably prove to be too low, but mathematically the chances are on my side. With the exception of the eastern end of the Island and sprayed areas elsewhere, there is an immense amount of Leaf Spot infection throughout. Given a few weeks of the right kind of weather I cannot see what can prevent extensive damage to thousands of acres of bananas which have so far been able to get by with relatively small decrease in number of stems, though they have suffered severely as regards quality of fruit.

Panama Disease has been taken into account, but I cannot see that it is responsible for any large reduction.

Original Signed  
W. Popenoe.

Kingston,

April 29th 1940

Mr. A.F. Butler:

Following is the estimate for total production of calendar year 1940 which I have submitted to Mr. Bradshaw as of April 25th:-

| <u>Month</u>    | <u>No.Weeks</u> | <u>Average per Week</u> | <u>Total</u> |
|-----------------|-----------------|-------------------------|--------------|
| May             | 5               | 100,000                 | 500,000      |
| June            | 4               | 125,000                 | 500,000      |
| July            | 4               | 175,000                 | 700,000      |
| August          | 5               | 225,000                 | 1,125,000    |
| September       | 4               | 250,000                 | 1,000,000    |
| October         | 4               | 325,000                 | 1,300,000    |
| November        | 5               | 325,000                 | 1,625,000    |
| December        | 5               | 275,000                 | 1,375,000    |
| Total 8 months  | 36              |                         | 8,125,000    |
| January - April | 17              |                         | 785,600      |
| Total Year      |                 |                         | 8,910,600    |

On January 2nd 1941, if total shipments for the calendar year 1940 have not exceeded 9,000,000, you are authorised to buy one only hat, best British make, and pass the bill to Mr. Archer to be charged against my account at Tela.



# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

1st May, 1940.

VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

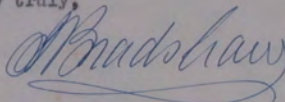
Dear Mr. Pollan,

I refer to previous advices in regard to the Leaf Spot Campaign here. The Government Board of Control has now made a ruling that, effective May 1st, they will only issue materials free of charge to growers sufficient for 75 gallons of Bordeaux mixture per acre on the basis of 5-5-50.

The Board requested the three Companies to arrange to supply any growers with additional materials who required same. After discussion with the Board it has been arranged that they will issue this additional material to growers upon an order from the representatives of the Companies, it being understood that we will first collect cash from the growers and later replace all supplies issued by the Board under such authorization. The reason for handling in this manner is that the Legislative Council refused to pass a law authorizing the Control Board to sell materials to the growers. As a matter of fact very few growers will use more than the quantity allowed to them by Government free of cost.

In order that we may collect the proper amounts for any issues made to the growers I would appreciate it if you would keep me advised weekly by air mail as to current prices for Copper Sulphate and Hydrated Lime. It is our intention to collect from the growers on the basis of cost of materials on hand at that time or current market quotations, whichever is higher.

Yours very truly,



Copy to Mr. W. E. Turnbull  
Dr. W. Popenoe ✓  
Dr. V. C. Dunlap

KINGSTON,

May 6th 1940

Philip Sherlock Esq.,  
Institute of Jamaica,  
Kingston

My dear Mr. Sherlock,

During our stay in Jamaica Mrs. Popenoe and I have taken a keen interest in the general subject of Spanish remains. I take the liberty of offering the following comments for such interest as they may possess:

The old buildings on Miranda Hill, just off the main road between the hospital and the down-town part of Montego Bay, seem to have received little attention at the hands of historians and I respectfully suggest that they are worth further investigation. In his "Historic Jamaica", Frank Cundall merely states "On Miranda Hill are Spanish remains". It was this remark which led us to visit the spot. There are walls here which seem to have been those of a fort, whether of Spanish or British construction I do not know; and there is a long, low building, roofless and in a ruined condition, which because of several architectural features seems to me definitely Spanish. If this building really was constructed by the Spaniards, it is one of the most interesting historic monuments in the Island. With your wider knowledge of these matters, you will doubtless be able to say just what are the facts. If we are correct in believing the building to be Spanish, would it not be worth while to start some sort of movement to have the place cleaned up, and the ruin brought to the atten-

-tion of interested visitors? It is very conveniently located, and it is our experience in Latin America that travellers are keenly interested in this sort of thing - not to mention residents, who should be the ones to profit most from any effort to preserve historic monuments.

Of still greater interest to us have been the remains at Seville Estate, near St. Ann's Bay. The carved stones which have been dug up within the past few years and which are now exhibited near the Overseer's house are beautiful examples of Spanish art, and worthy of much attention from all those interested in the history of Jamaica. Though they are being carefully protected from damage by Mr. Casserley, who is in charge of the property and who has the honour of having re-discovered them (for they seem to be some of the carvings mentioned in the description of Sevilla by Sir Hans Sloane) I could wish that they were in the Museum of the Institute. Mr. Casserley tells me he has in mind the construction of a small building in the early Spanish style, on the site of ancient Sevilla, to house these important relics. It would seem appropriate to locate such a building hard by the foundations of the structure in which they were discovered. There are still sufficient remains of walls and floor to be of interest, not to mention the deep brick-lined well. This ruin must be the earliest relic of European colonization which Jamaica possesses, and I believe the time will come when it will attract much attention.

Sincerely yours,

Copy to Mr. H.H. Croucher

The Institute of Jamaica,

*For the Encouragement of Literature,  
Science and Art.*

KINGSTON, JAMAICA.

7th May, 1940.

Dr. W. Popenoe,  
c/o The United Fruit Co.  
Kingston.

Dear Mr. Popenoe:

Please accept my thanks for your kind and interesting letter of May 6th.

I am having some enquiries made about the old buildings at "Miranda Hill", and will let you know what I find. I agree entirely that some attempt should be made to clean up the place, and I will write to one or two people as soon as I have made a search for information about the old buildings.

Sir Edward Denham appointed a Committee to consider the preservation of old monuments and buildings, and I hope that this will be revived before long. I myself should have done something about it before, but my hands have been very full with building work.

Some time ago I spoke to Mr. Ritchie about the possibility of getting at least one example of the Seville carvings for the Institute, and he told me that he had in mind the construction of such a building as Mr. Casserley mentioned to you.

Nothing, however, has as yet been done, and it seems to be a case of "tomorrow"!

FMS/S

With best wishes, Yours sincerely,

*Angus Johnston*

SECRETARY

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

14th May, 1940.

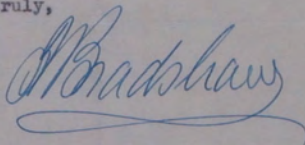
VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Pollan,

I forward herewith copy of a memorandum by Mr.  
Butler dated May 11th in regard to his investigations of  
Cercospora, which I am sure you will find interesting.

Yours very truly,



Copy to Mr. W. E. Turnbull  
Dr. W. Popenoe ✓  
Dr. V. C. Dunlap.

Enclosure.

C O P Y.

Cedar Grove Experiment Station,  
Gregory Park, P.O.

May 11th, 1940.

Dear Mr. Bradshaw:

Another Means of Distributing Cercospora Musae

Recently we have found in our cultures of *Cercospora musae* a type of growth known as a "Sclerotia". These are small, round or egg-shaped bodies containing reserves of plant food and occupying approximately the same position in the life history of the fungus as a potato tuber does in the life history of the potato plant. We have found these same sclerotia like bodies in the dried up *Cercospora* spots on the leaves.

Unlike conidia these bodies have a thick cell wall, are extremely resistant to variations in temperature and humidity, and have the power to remain dormant for long periods. Moreover it is quite probable that they can germinate and produce conidia anywhere and any time that conditions of temperature and humidity become favourable. Where conidia soon die if they cannot get into the banana leaf, these sclerotia because of their reserves of food can go on growing and apparently produce conidia in plain water, moist soil or any other spot suitable for fungoid growth.

I believe that the Company might save considerable sums of money for control in Divisions where *Cercospora* is just starting, by taking care that infected trash is not used for padding Railway cars, thereby scattering these sclerotia at every point along the Railway where switching occurs. All the evidence in Honduras and Jamaica points to human beings having assisted in the dissemination of the fungus. In Honduras the disease was associated in its early days with railway lines, switches and labour camps, all places where dried leaves were moved for either padding cars or making trash mats. In Jamaica it was for a long time associated with the rum shops along the roads, where the men operating the banana trucks padded with infected trash stopped for refreshment.

It is probably too late to do anything about it in those Divisions where *Cercospora* is now widespread, but it appears likely that in new areas we may be able to delay the date of the first spray for some time by a simple method of plant hygiene.

Yours sincerely,

(Sgd.) Alfred F. Butler.

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

VIA AIR MAIL

JAMAICA DIVISION  
KINGSTON, JAMAICA

May 23rd 1940

Dear Doc:

Before your departure you left with me copy of letter dated April 26th which you wrote to Cuthill in regard to the Central American Yucca Elephantipes for the prevention of soil erosion in Jamaica.

Under date of May 21st I received the following letter addressed to you by Goodman, the Superintendent of Public Gardens:-

"You will remember that you have had communication with the Director and Mr. Cuthill, Jamaica Sugar Estates Ltd., with reference to Yucca elephantipes for prevention of soil erosion.

The Director has requested me to ask you to obtain a supply of planting material from Guatemala for this Department for trial. I am not sure how this plant is propagated - if by cuttings or seed. If by cutting, I suppose 100 cuttings would give us sufficient material to start a nursery.

Any expense incurred will be borne by this Department."

I am not sure whether it was your intention to arrange the supply of this plant and I shall therefore be glad if you would advise me in regard thereto. I have considered it advisable to keep Goodman's letter here for the purposes of reference.

Dron has now settled down in his work as Supervising Agent, and has more or less decided to take up residence on Mount Diablo. He will be cool enough there, but I personally do not like the continuous mist which is found in that part.

The work in the Leaf Spot Department is proceeding much more smoothly than I expected and, although I am dictating this to the person concerned, I can truthfully say it is due to her hard work and efficiency. The most difficult thing, I find, is to get Mary to leave the office when it is time to go home.

With kindest regards to Elena, the children and yourself,

Sincerely yours,

Bradshaw

Dr. Wilson Popenoe  
c/o The United Fruit Company  
Guatemala City, Guatemala, C.A.

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

June 22nd 1940

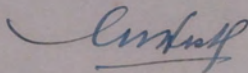
Mr. A.A. Pollan,  
Executive Vice-President,  
United Fruit Company  
Boston

Dear Mr. Pollan,

I refer to Mr. Bradshaw's letter to you of April 5th in regard to a method of curing Panama Disease by inoculating trees with Permanganate of Potash.

I forward herewith clipping from the Daily Gleaner of June 19th containing a notice published by the Department of Science & Agriculture prohibiting the use of this method on banana trees which are already diseased.

Yours very truly,



Copy to Mr. W.E. Turnbull  
Dr. Wilson Popence ✓  
Dr. V.C. Dunlap



**Department of Science and  
Agriculture.**

**Notice To Banana Planters.**

It has been brought to the notice of the Director of Agriculture that many banana growers are employing unauthorised methods in attempting to treat Panama Disease of bananas, in particular, the injection of potassium permanganate solution into diseased plants.

Planters desirous of testing new methods of treating Panama disease should apply to the Director of Agriculture for permission to do so. Failure to obtain this permission before setting out on such experiments constitutes an illegal act and renders the planter liable to prosecution under the Protection from Disease (Plants) Law, Chapter 350. Under this law it is still required that cases of Panama disease be treated by the gas-oil method as detailed in the Panama Disease Amendment Orders of 1931 and 1934 and that it is the duty of Inspectors of Plant Disease to enforce these orders.

The use of unauthorised methods in the treatment of Panama disease is not only liable to prove a menace to the planter concerned but to the industry as a whole.

The employment of permanganate injection or any other such treatment on healthy plants as a possible preventive of disease does not constitute a violation of the Law.

G. A. JONES,  
Director of Agriculture.



DEPARTMENT OF SCIENCE AND AGRICULTURE,

JAMAICA, ... 24th June, ..... 1940.

PLEASE QUOTE THE DATE  
OF THIS LETTER AND THE  
FOLLOWING NO. ....

1096/40

Dear Dr. Popenoe,

Your letter to the Director of Agriculture with reference to a shipment of Yucca elephantipes cuttings has been referred to me.

We beg to thank you for this material and to say that they have arrived in good condition. I hope we will be able to reciprocate some day.

Yours sincerely,

Superintendent of Public  
Gardens.

Dr. W. Popenoe,  
United Fruit Company  
Antigua.  
Guatemala.

UNITS ON HAND STILL TO BE ISSUED:

Hardie 99's

|               |           |
|---------------|-----------|
| new units     | 4         |
| 2nd hand ones | 6 approx. |
|               | <u>10</u> |

Drake & Fletcher Headland

|         |   |
|---------|---|
| On hand | 2 |
|---------|---|

Vermorel Headlands

10 units allotted us by the Board, less 4 which we exchanged with the Standard Fruit Company for 5 Hardie Headlands.

|                                    |   |
|------------------------------------|---|
| Issued to our contractors          | 5 |
| Sent To S.F. Company, Montego Bay  | 2 |
| On hand for Standard Fruit Company | 2 |
| Available for our contractors      | 1 |

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

VIA AIR MAIL

JAMAICA DIVISION  
KINGSTON, JAMAICA

June 27th 1940

Dear Pop,

I attach copy of self-explanatory letter received from W.B. Dixon, Acting Plant Inspecting Officer, in regard to the orchid plants which were forwarded to you from Puerto Rico. Although Mrs. Sharpe informed you these orchids were dead and buried, you will note that they are still in the land of the living and I should be glad, therefore, if you would advise me what you want done with them. If you have the health certificate and wish somebody to be guardian for these orchids you know quite well how much Con and I like them.

It certainly looks as though you can without doubt start figuring how you are going to spend the fortune I look like losing to you at the end of the year. Up to the 22nd June the total Island shipments amounted to only 1,808,684, and where we are going to get the rest of the 10 million estimated by me I really cannot say at the present time, specially when you consider that half of the year has already past away.

I had quite an amusing note from Bayley-Hay the other day; I had asked him for an estimate of requirements of spray equipment over the next six months, and the following was the list he gave me:-

| <u>Central Division - Estimate of equipment requirements for next 6 months</u> |                    |                        |                          |                             |              |
|--|--------------------|------------------------|--------------------------|-----------------------------|--------------|
|  |                    |                        |                          | <u>Drake &amp; Fletcher</u> | <u>Total</u> |
| <u>Hardie No.4<math>\frac{1}{2}</math></u>                                     | <u>Hardie No.6</u> | <u>Hardie Headland</u> | <u>Vermorel Headland</u> |                             |              |
| 50   | 35                 | 20                     | 20                       | 10                          | 135          |

| <u>Estimate of total equipment required</u> |                    |                        |                          |                             |                      |                     |              |
|---|--------------------|------------------------|--------------------------|-----------------------------|----------------------|---------------------|--------------|
| <u>Hardie No.4<math>\frac{1}{2}</math></u>  | <u>Hardie No.6</u> | <u>Hardie Headland</u> | <u>Vermorel Headland</u> | <u>Drake &amp; Fletcher</u> | <u>Hardie Estate</u> | <u>Hardie No.99</u> | <u>Total</u> |
| 1,200                                       | 700                | 100                    | 75                       | 35                          | 15                   | 7                   | 2,132        |

I presume he is looking forward to the day when he will be in charge of the whole Island for all three companies and is therefore estimating accordingly!

You have already heard from Jones that the Yucca elephantipes were safely received and I informed Mr. Cuthill accordingly.

With kindest regards from us all, and hoping to see you again soon,

Sincerely yours,

*Ernesto*

Dr. Wilson Popence  
United Fruit Company  
Guatemala City

C O P Y of letter received from the DEPARTMENT OF SCIENCE & AGRICULTURE

26th June 1940

Dr. Wilson Popenoe,  
United Fruit Company  
Kingston

Dear Sir,

A parcel of Orchid Plants has arrived from U.S. Experiment Station, Maraguez, Puerto Rico.

No Permit was obtained for the importation of these plants and neither did a Health Certificate accompany them. The plants have therefore been placed in Quarantine at Hope.

I have been instructed to inform you that when a Permit is obtained from the Director of Agriculture and a Health Certificate from Puerto Rico, the plants will be delivered.

Yours faithfully,

(Signed) W.B. Dixon

Actg. Plant Inspecting Officer.

1941 CROP

UNITED FRUIT

Form 1187 S

COMPANY,

TAMMIA

DIVISION

PERIOD COMMENCED:

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF JUNE 1940

42

| NO. OF WEEKS<br>FARM | SUPERINTENDENCE AND CULTIVATION |             |                  |                 |                  |              | HARVESTING            |              |                 |                       |        |                 | TOTAL COST                                |                           |                           |
|----------------------|---------------------------------|-------------|------------------|-----------------|------------------|--------------|-----------------------|--------------|-----------------|-----------------------|--------|-----------------|---|---------------------------|---------------------------|
|                      | Acres<br>Mature                 | EXPENDITURE | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Acres<br>Cut | Coal per<br>Ton | Tons Cane<br>Produced | Acres  | Coal per<br>Ton | Farm Expenditure<br>Excludes depreciation | Cost per Ton<br>This Year | Cost per Ton<br>Last Year |
| SEWARD ROAD - 571    |                                 |             |                  |                 |                  |              |                       |              |                 |                       |        |                 |   |                           |                           |
| CONCRETE PK. 10      | 2                               | 632.86      | 803.89           | 2               | 41               | 2            | 150.12                | 2            | 82              | 1                     | 624.45 | 1               | 624.45                                    | 82.12                     | 82.12                     |
| WILSONS PK. 94       | 1                               | 834.31      | 841              | 1               | 41               | 1            | 96.85                 | 2            | 16              | 1                     | 350.99 | 1               | 350.99                                    | 82.12                     | 82.12                     |
| BULLY PARK 97        | 1                               | 883.44      | 18.08            | 1               | 08               | 1            | 19.43                 | 1            | 43              | 1                     | 205.89 | 1               | 205.89                                    | 82.12                     | 82.12                     |
| JOHNSON 7            | 7                               | 90.96       | 18.99            | 7               | 99               | 7            | 19.43                 | 1            | 43              | 7                     | 224.86 | 7               | 224.86                                    | 82.12                     | 82.12                     |
| TIMONIA PARK 83      | 83                              | 658.86      | 17.38            | 83              | 38               | 83           | 87                    | 87           | 87              | 83                    | 292.08 | 83              | 292.08                                    | 82.12                     | 82.12                     |
| ACREH PARK 881       | 15                              | 871.51      | 17.38            | 15              | 38               | 15           | 88.09                 | 88           | 09              | 15                    | 435.44 | 15              | 435.44                                    | 82.12                     | 82.12                     |
| SHANDLER PARK 413    | 3                               | 308.99      | 8.00             | 3               | 00               | 3            |                       |              |                 | 3                     | 728.66 | 3               | 728.66                                    | 82.12                     | 82.12                     |
| SEPARATIONHOUSE      |                                 | 433.44      | 38               |                 |                  |              |                       |              |                 |                       |        |                 |   |                           |                           |
| LYRA STOCK           |                                 | 724.45      | 47               |                 |                  |              |                       |              |                 |                       |        |                 |   |                           |                           |
| TOTAL PERIOD         | 1825                            | 229.82      | 18.78            | 1825            | 78               | 1825         | 800.12                | 1825         | 81              | 1825                  | 958.63 | 1825            | 958.63                                    | 82.12                     | 82.12                     |
| " MONTHS             | 1206                            | 454.53      | 8.10             |                 |                  |              |                       |              |                 |                       |        |                 |   |                           |                           |

Date of Exchange = Months  
Period 03.5873  
03.4287

JULY 4, 1940.  
(Date)

*Pepperc*  
Form 723  
3-17-26

UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1187 - BANANAS - FOR PERIOD ENDED JUNE 1940  
FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| District   | Acres<br>in<br>Bearing | Mainten-<br>ance | Har-<br>vesting<br>U. S. Currency | Cult. Deprn.<br>and<br>Prop. Losses<br>U. S. Currency | Counts  | Cost per count  |                            | Cost per acre              |                            |
|------------|------------------------|------------------|-----------------------------------|---|---------|-----------------|----------------------------|----------------------------|----------------------------|
|            |                        |                  |                                   |   |         | Har-<br>vesting | Cult.<br>& Prop.<br>Losses | Cult.<br>& Prop.<br>Losses | Cult.<br>& Prop.<br>Losses |
| St. Cath.  | 3,154                  | 153,624.55       | 11,552.34                         | 59,914.14   | 245,710 | .672            | .244                       | 48.71                      | 19.00                      |
| St. Thomas | 368                    | 15,521.05        | 632.45                            | 5,610.26  | 11,717  | 1.370           | .479                       | 42.18                      | 15.25                      |
| TOTAL      | 3,522                  | 169,145.60       | 12,084.79                         | 65,524.40   | 257,427 | .704            | .255                       | 48.03                      | 18.60                      |

Farm cost includes treating "Leaf Spot" and  
"Panama Disease", which work out @ \$.103 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Pepperc

Kingston, JAMAICA  
July 4, 1940.





FARM REPORT FOR PERIOD ENDED JUNE 1940 PRODUCT BANANAS

| FARM                                   | ACREAGE | ACREAGE   |            | EXPENDITURE      |            | PRODUCTION |        |               | COUNT | COST PER COUNT |            | COST PER ACRE |
|--|---------|-----------|------------|------------------|------------|------------|--------|---------------|-------|----------------|------------|---------------|
|  |         | IRRIGATED | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems      | Counts | lbs. PER ACRE |       | FARM MTC.      | HARVESTING |               |
| <b>RECAPITULATION</b>                  |         |           |            |                  |            |            |        |               |       |                |            |               |
| Period - 26 Weeks                      |         |           |            |                  |            |            |        |               |       |                |            |               |
| St. Catherine                          | 307     | 3154      | 3154       | 153624.33        | 11552.34   | 361057     | 245710 | 77.9          | 891   | .625           | .047       | 49.71         |
|  | 197     | 1750      | 1750       | 128912.75        | 21690.62   | 665719     | 579106 | 329.4         | 1970  | .235           | .037       | 73.35         |
| St. Thomas                             | 1,175   | 368       | 368        | 15521.03         | 532.45     | 19854      | 11717  | 31.8          | 590   | .325           | .045       | 49.16         |
|  | 230     | 454       | 454        | 19547.19         | 2132.91    | 85523      | 62310  | 137.9         | 734   | .312           | .034       | 43.05         |
| Total Period                           | 537     | 3522      | 3522       | 159145.60        | 12024.79   | 360921     | 257427 | 73.1          | 1676  | .637           | .047       | 48.06         |
|  | 300     | 2210      | 2212       | 148459.94        | 23823.43   | 751047     | 641716 | 290.1         | 654   | .231           | .037       | 37.13         |
| Month - 1940 : 4 Weeks; 1939 : 5 Weeks |         |           |            |                  |            |            |        |               |       |                |            |               |
| St. Catherine                          | 348     | 3605      | 3605       | 27470.84         | 3023.20    | 119968     | 52481  | 17.3          | 521   | .440           | .048       | 7.62          |
|  | 189     | 2279      | 2279       | 29954.02         | 2351.23    | 179125     | 141286 | 62.0          | 789   | .312           | .035       | 12.15         |
| St. Thomas                             | 359     | 392       | 392        | 2662.59          | 184.34     | 7186       | 5487   | 8.2           | 485   | .627           | .053       | 7.35          |
|  | 245     | 537       | 537        | 3556.23          | 440.25     | 20132      | 12575  | 22.0          | 616   | .395           | .035       | 6.33          |
| Total Month                            | 364     | 3997      | 3997       | 30353.43         | 3207.54    | 127154     | 65939  | 16.5          | 1519  | .450           | .048       | 7.52          |
|  | 178     | 2816      | 2816       | 33570.32         | 2791.59    | 199267     | 153699 | 54.6          | 1771  | .610           | .038       | 11.24         |
| Rate of Exchange - 1940 Month \$3.5675 |         |           |            |                  |            |            |        |               |       |                |            |               |
| - 1940 Period \$3.7334                 |         |           |            |                  |            |            |        |               |       |                |            |               |
| - 1939 Period \$4.688                  |         |           |            |                  |            |            |        |               |       |                |            |               |

DATE July 4, 1940

\* Average under irrigation included in "In Bearing" figures.  
 † Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.

Antigua, Guatemala, 10 June 1940

Personal

Mr E R Platt  
United Fruit Co.,  
Kingston, Jamaica.

Dear Ernesto:

Yours of 23rd May came a few days ago. At all times it is difficult to make shipments from here to Jamaica, but now more hazardous than ever, I suspect, so I doubt that we had best try sending any large quantity of Yucca elephantipes cuttings over to Hope. I have prepared a small lot of selected material which I shall dispatch this afternoon by air express, and I trust this will suffice to start the good work going. Mr Cuthill would probably be grateful if you would let him know the material has reached the Island - after you do know that it has done so.

Ever since my arrival I have been tremendously on the jump, running up and down the West Coast on this Cinchona job. It seems to involve even more travelling than the Leaf Spot Control campaign, which is saying a good deal. I shall probably be kept on it until the end of August.

I was mighty glad to have news of all of you, and will appreciate it if you will let me know from time to time how the Island shipments are coming on, so I can begin to figure out how I am going to spend the money Mary is going to collect for me. Warmest regards to all of you: we miss you, and miss Roslyn Hall, and all the other pleasant coexistences and sequences.

Sincerely yours,

Antigua Guatemala, 10 June 1940

Hon. G.A. Jones C.M.G.,  
Director of Agriculture,  
Kingston, Jamaica, B.W.I.

Dear Mr. Jones:

In response to Mr. Goodman's letter of 21st May, I am attempting a small shipment of Yucca elephantipes cuttings. Mr. Goodman suggested one hundred cuttings, but as there seems to be no prompt means of forwarding by steamer, I am using air express, and reducing the quantity to 25 cuttings, which are going forward prepaid, with the compliments of the United Fruit Company. If these grow well with you, and you later desire a larger quantity, we shall be glad to see what can be done about making shipment via Belize and the Connector. At the moment it seems to me rather unwise to attempt anything but air express.

This plant grows here from cuttings with the greatest facility, and I do not believe you will have any difficulty with the ones I am sending. I have tried to see that they are clean, but you will probably want to dip them or fumigate them on arrival.

I hope all goes well with the Leaf Spot Control campaign. I miss my frequent contacts with all of you, and the pleasant associations of the work in Jamaica. At the moment I am devoting all my time to the Cinchona project here in Guatemala. I feel confident that we have, here, conditions admirably adapted to this culture.

Warmest regards to Mrs. Jones, your goodself, and my other friends in the Department.

Sincerely yours,

cc Thomas Bradshaw Esq.

UNITED FRUIT COMPANY, JAMAICA DIVISION

Cedar Grove Experiment Station,  
Gregory Pak P.O.

July 2, 1940.

Dear Dr. Popence:

For the period ending June 30, the shipments of bananas from Jamaica was approximately 1,900,000 stems, as compared with approximately 9,000,000 for the corresponding period last year.

The shipments continue to run around 150,000 stems, and I am busy looking for the highest priced hat in Jamaica.

Everything else is going on about the same. The Farms are, I believe, at last recovering from the battering of last Fall.

With kind regards,

As always,

*Bullington*

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

16th August, 1940.

VIA AIR MAIL

Dr. Wilson Popenoe,  
Tela Railroad Company,  
La Lima. Honduras.

Dear Dr. Popenoe,

I enclose herewith copy of a letter from Ansell Hart to Mr. Hislop, which is self-explanatory. I know that if these plants are available you will be only too glad to accommodate Mr. Hart and I am therefore forwarding you the necessary Importation Permit which should accompany this shipment.

Kindest regards, *to yourself & the family from both.*

Sincerely yours,

*Tom Bradshaw*

Enclosures.

C O P Y.

MANTON & HART

71 BARRY STREET,  
KINGSTON,  
JAMAICA.

REF:AH#YW

Carroll Hislop Esq.,  
The United Fruit Company,  
Kingston.

Dear Carroll:

I find from Dr. Popenoe's book that the  
Ilama (*Annona Diversifolia*) grows in Guatemala and I am  
very anxious to get some plants, but do not know how to  
make contact. I enclose permit from the Director of  
Agriculture for me to import one dozen plants and I  
wondered whether you could help me. As the plants are  
not to have any earth on them, it would be necessary for  
them to come by air mail. I feel quite guilty about  
being such a nuisance to you.

Sincerely yours,  
(Sgd.) Ansell Hart.

Encl:

Antigua, Guatemala, 21 Sept 1940

Thomas Bradshaw, Esq.,  
Manager, United Fruit Co.,  
Kingston, Jamaica.

Dear Mr. Bradshaw:

Your letter of 16th August, regarding plants of Annona diversifolia for Mr. Ansell Hart, reached me some days ago. So far as am aware, there are no plants available anywhere in Guatemala, but on the way down to Barrios last week I had the good fortune to find fruits on sale at Sanarate station, and I obtained seeds for the first time in several years. I am enclosing 25 of these, from which I believe Mr Hart will have no difficulty in growing a few plants. If he does not feel sure that he can handle them, he might like to turn them over to Mr Downes at Hope, who would, I am sure, be able to grow them without difficulty, and who could later give Mr Hart some of the plants.

I have finished the reorganization of the Cinchona work for Merck and Co. and am going over to La Lima tomorrow to spend a few weeks. After that, I do not know.

Helen joins in warmest regards to Mary and yourself, and to our other friends over there.

Sincerely yours,

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

11th November, 1940.

VIA AIR MAIL

Mr. J. F. Aycock, Manager,  
Tela Railroad Company,  
La Lima,  
Honduras.

Dear Mr. Aycock,

I refer to your radiogram of October 25th and wish to advise that I have just been informed by Imperial Chemical Industries that Mr. Holme expects to arrive in La Lima on or about December 9th. They regret very much the delay in letting you have this information and state that such delay has been caused by their efforts to figure out a definite schedule for Mr. Holme.

Yours very truly,

*b. N. Hialoh*  
S.

Copy to Dr. W. Popenoe ✓  
Mr. V. C. Dunlap



Form 723

3-17-26

## UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1167 - BANANAS - FOR PERIOD ENDED AUGUST 1940

FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| <u>District</u> | <u>Acres<br/>in<br/>Bearing</u> | <u>Mainten-<br/>ance</u> | <u>Har-<br/>vesting</u> | <u>Cult. Deprn.<br/>and<br/>Prop. Losses</u> | <u>Counts</u>  | <u>Cost per count</u>   |   | <u>Cost per acre</u>                  |                                    |
|-----------------|---------------------------------|--------------------------|-------------------------|--|----------------|-------------------------|---|---------------------------------------|------------------------------------|
|                 |                                 |                          |                         |  |                | <u>Har-<br/>vesting</u> | <u>Cult.<br/>&amp; Prop.<br/>Losses</u> | <u>Mtce.<br/>&amp; Prop.<br/>only</u> | <u>Cult.<br/>Deprn.<br/>Losses</u> |
|                 |                                 |                          |                         |  |                | <u>U. S. Currency</u>   |   |                                       |                                    |
| St. Cath.       | 3,266                           | 222,803.50               | 18,334.26               | 84,286.33                                    | 320,322        | .634                    | .222                                    | 68.22                                 | 25.81                              |
| St. Thomas      | 374                             | 21,787.96                | 952.11                  | 7,833.07                                     | 22,949         | .990                    | .341                                    | 58.26                                 | 20.94                              |
| <b>TOTAL</b>    | <b>3,640</b>                    | <b>244,591.46</b>        | <b>19,286.37</b>        | <b>92,119.40</b>                             | <b>403,271</b> | <b>.655</b>             | <b>.228</b>                             | <b>67.20</b>                          | <b>25.31</b>                       |

Farm cost includes treating "Leaf Spot" and Panama Disease"

which work out @ \$.102 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popeoe

Kingston, JAMAICA  
September 5, 1940

UNITED FRUIT COMPANY, DIVISION

FARM REPORT FOR PERIOD ENDED AUGUST 1940 PRODUCT BANANAS

| FARMS<br>Depren.     | ACREAGE   |            | EXPENDITURE<br>D. & I. (Cont'd) |            | PRODUCTION |        |                    | COUNT<br>RATIO | COST PER COUNT |                 | COST PER<br>ACRE<br>MTCE.<br>ONLY |        |
|----------------------|-----------|------------|---------------------------------|------------|------------|--------|--------------------|----------------|----------------|-----------------|-----------------------------------|--------|
|                      | IRRIGATED | IN BEARING | FARM MAINTENANCE                | HARVESTING | Stems      | Counts | ↑ CTS.<br>PER ACRE |                | FARM MTCE.     | HARVEST-<br>ING |                                   |        |
| <b>ST. CATHERINE</b> |           |            |                                 |            |            |        |                    |                |                |                 |                                   |        |
| Watson Groves        | .397      | 218        | 218                             | 13471.98   | 903.29     | 29077  | 18473              | 84.7           | .638           | .789            | .040                              | 61.80  |
|                      | .099      | 187        | 187                             | 14178.80   | 2055.68    | 59954  | 53048              | 237.1          | .90            | .225            | .038                              | 75.88  |
| Congrave Park        | .290      | 880        | 880                             | 49213.27   | 4296.03    | 164170 | 105923             | 130.4          | .651           | .450            | .040                              | 60.02  |
|                      | .125      | 348        | 348                             | 38424.80   | 6808.83    | 136078 | 190174             | 135.4          | .801           | .368            | .025                              | 35.77  |
| Twick. Park          | .447      | 48         | 48                              | 4124.23    | 505.69     | 16370  | 11163              | 232.6          | .689           | .370            | .054                              | 85.13  |
|                      | .875      | 4          | 4                               | 1468.80    | 340.79     | 6883   | 2832               | 145.3          | .804           | .54             | .018                              | 27.20  |
| Bushy Park           | .917      | 270        | 270                             | 19702.54   | 2388.53    | 39043  | 22068              | 81.7           | .590           | .893            | .108                              | 72.97  |
|                      | .571      | 74         | 74                              | 8509.53    | 2354.72    | 45203  | 31954              | 431.8          | .891           | .268            | .021                              | 114.89 |
| Half-Way-Trees       | .228      | 517        | 517                             | 28389.09   | 3345.94    | 100551 | 69681              | 134.7          | .693           | .408            | .048                              | 54.91  |
|                      | .167      | 352        | 352                             | 34259.89   | 5582.27    | 158645 | 147276             | 480.4          | .978           | .154            | .038                              | 88.92  |
| Bernard Lodge        | .660      | 208        | 208                             | 15628.89   | 1120.55    | 39272  | 26626              | 128.0          | .678           | .564            | .042                              | 76.10  |
|                      | .435      | 118        | 118                             | 11823.84   | 1515.65    | 44820  | 34981              | 195.3          | .780           | .330            | .043                              | 27.64  |
| Joshua               | .551      | 361        | 361                             | 23570.83   | 1886.87    | 36753  | 41218              | 114.4          | .703           | .571            | .046                              | 65.29  |
|                      | .215      | 239        | 239                             | 1144.71    | 2014.26    | 9927   | 9178               | 383.2          | .918           | .231            | .023                              | 38.56  |
| Phoenix Park         | .664      | 438        | 438                             | 25186.32   | 1973.48    | 63613  | 42115              | 96.2           | .652           | .599            | .047                              | 57.50  |
|                      | .279      | 341        | 341                             | 32755.13   | 4501.98    | 125875 | 117167             | 243.5          | .857           | .107            | .025                              | 49.44  |
| Lawrencefield        | .604      | 386        | 386                             | 34923.09   | 1814.08    | 61498  | 41987              | 108.8          | .683           | .594            | .043                              | 64.37  |
|                      | .202      | 254        | 254                             | 24255.80   | 710.85     | 86827  | 78258              | 96.7           | .869           | .323            | .034                              | 25.29  |
| Superintendence      |           |            |                                 | 12604.80   |            |        |                    |                |                | .035            |                                   | 5.86   |
|                      |           |            |                                 | 12808.27   |            |        |                    |                |                | .017            |                                   | 1.35   |
| Live Stock           |           |            |                                 | 5778.39    |            |        |                    |                |                | .018            |                                   | 1.77   |
|                      |           |            |                                 | 4673.84    |            |        |                    |                |                | .006            |                                   | .51    |
| Total Period         | .456      | 3268       | 3268                            | 229202.50  | 18324.26   | 471347 | 290322             | 116.4          | .668           | .566            | .049                              | 68.22  |
|                      | .217      | 2017       | 2017                            | 185142.12  | 2753.85    | 895213 | 724123             | 375.1          | .845           | .244            | .031                              | 21.79  |
| Total Month          | .403      | 3598       | 3598                            | 38624.71   | 2425.72    | 96817  | 67441              | 18.7           | .698           | .573            | .051                              | 10.74  |
|                      | .232      | 1810       | 1810                            | 21870.45   | 2334.57    | 116809 | 90363              | 30.9           | .775           | .350            | .044                              | 10.65  |
| <b>ST. THOMAS</b>    |           |            |                                 |            |            |        |                    |                |                |                 |                                   |        |
| Springfield          | .428      | 71         | 71                              | 2728.17    | 150.21     | 7984   | 4111               | 57.9           | .516           | .925            | .037                              | 33.47  |
|                      | .080      | 40         | 40                              | 2189.20    | 452.50     | 20453  | 14183              | 254.5          | .623           | .325            | .031                              | 22.25  |
| Albion               | .910      | 303        | 303                             | 14513.52   | 801.90     | 29081  | 18838              | 62.3           | .648           | .920            | .043                              | 57.80  |
|                      | .278      | 441        | 441                             | 24745.13   | 2447.17    | 100476 | 70439              | 159.8          | .701           | .351            | .025                              | 25.11  |
| Superintendence      |           |            |                                 | 478.27     |            |        |                    |                |                | .021            |                                   | 1.28   |
|                      |           |            |                                 | 688.97     |            |        |                    |                |                | .007            |                                   | 1.30   |
| Live Stock           |           |            |                                 | 98.86      |            |        |                    |                |                | .001            |                                   | .21    |
| Total Period         | .828      | 274        | 274                             | 21787.26   | 282.11     | 37045  | 22240              | 61.4           | .619           | .949            | .041                              | 56.26  |
|                      | .245      | 481        | 481                             | 2680.88    | 294.67     | 120919 | 84543              | 178.0          | .700           | .329            | .034                              | 29.38  |
| Total Month          | .440      | 390        | 390                             | 3653.54    | 241.47     | 9123   | 6523               | 16.7           | .715           | .591            | .037                              | 9.65   |
|                      | .257      | 567        | 567                             | 5256.11    | 385.33     | 15544  | 10076              | 17.8           | .648           | .682            | .032                              | 3.27   |

September 5, 1940.

DATE

\* Average under irrigation included in "in bearing" figures.  
† Counts, Pounds, etc.  
Use two lines for each farm. Show last year's figures in red.

## FARM REPORT FOR PERIOD ENDED AUGUST 1940 PRODUCT BANANAS

| FARM              | ACREAGE | EXPENDITURE |            | PRODUCTION       |            |         | COUNT       | COST PER COUNT |          | COST PER ACRE |            |             |
|-------------------|---------|-------------|------------|------------------|------------|---------|-------------|----------------|----------|---------------|------------|-------------|
|                   |         | IRRIGATED   | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems   |             | Counts         | PER ACRE |               | FARM MTCE. | HARVEST-ING |
| RECAPITULATION    |         |             |            |                  |            |         |             |                |          |               |            |             |
| PERIOD - 35 Weeks |         |             |            |                  |            |         |             |                |          |               |            |             |
| St. Catherine     | 456     | 3266        | 3266       | 222408.50        | 16334.26   | 571247  | 380322      | 116.4          | .568     | .586          | .049       | 66.22       |
|                   | 217     | 2017        | 2017       | 185147.18        | 29253.85   | 896713  | 752423      | 378.1          | .846     | .844          | .039       | 91.79       |
| St. Thomas        | 626     | 374         | 374        | 21787.96         | 952.11     | 37045   | 22849       | 81.4           | .319     | .249          | .041       | 58.26       |
|                   | 326     | 481         | 481        | 26680.88         | 1624.27    | 10928   | 8464        | 178.0          | .700     | .359          | .034       | 59.59       |
| Total Period      | 1477    | 6540        | 6540       | 244521.42        | 13265.37   | 608322  | 403221      | 110.9          | .663     | .607          | .048       | 87.20       |
|                   | 1280    | 2498        | 2498       | 113804.00        | 7149.52    | 1017542 | 843155      | 327.5          | .389     | .254          | .038       | 85.59       |
| MONTH - 5 Weeks   |         |             |            |                  |            |         |             |                |          |               |            |             |
| St. Catherine     | 408     | 3598        | 3598       | 33624.71         | 3435.72    | 96617   | 57441       | 16.7           | .522     | .574          | .051       | 10.74       |
|                   | 326     | 2920        | 2920       | 31670.48         | 3934.57    | 116609  | 90363       | 30.3           | .775     | .560          | .044       | 10.86       |
| St. Thomas        | 440     | 390         | 390        | 3653.54          | 241.47     | 9125    | 6523        | 16.7           | .715     | .591          | .037       | 9.88        |
|                   | 357     | 587         | 587        | 5522.11          | 335.22     | 15344   | 10075       | 17.8           | .643     | .522          | .032       | 9.27        |
| Total Month       | 1406    | 3998        | 3998       | 42478.25         | 2677.19    | 105740  | 73964       | 18.5           | .639     | .574          | .050       | 10.63       |
|                   | 1331    | 1467        | 1467       | 36923.57         | 4269.79    | 132163  | 100439      | 38.8           | .760     | .368          | .043       | 10.39       |
| Rate of Exchange  |         |             |            |                  |            |         | 1940 Month  | \$4.0340       |          |               |            |             |
|                   |         |             |            |                  |            |         | 1940 Period | \$3.7887       |          |               |            |             |
|                   |         |             |            |                  |            |         | 1939 Period | \$4.682        |          |               |            |             |

\* Average under irrigation included in "In Bearing" figures.  
† Counts. Pounds, etc.  
Use two lines for each farm. Show last year's figures in red.

September 5, 1940.

DATE

1941 CROP

PERIOD COMMENCED: 4-28-40

ORANGE FRUIT

FARM REPORT—SUGAR

COMPANY, JULIANA

Form 1167-S

DIVISION

PERIOD ENDED WITH MONTH OF SEPTEMBER 1940

| No. OF WEEKS<br>FARM                             | SIRRENTREND AND CULTIVATION |                   |                 |                   |              |                       | HARVESTING        |             |                 |           |                       |                   | TOTAL COST      |  |           |           |
|--|-----------------------------|-------------------|-----------------|-------------------|--------------|-----------------------|-------------------|-------------|-----------------|-----------|-----------------------|-------------------|-----------------|--|-----------|-----------|
|  | THIS YEAR                   |                   |                 | LAST YEAR         |              |                       | THIS YEAR         |             |                 | LAST YEAR |                       |                   | THIS YEAR       | THIS YEAR                                  | LAST YEAR |           |
| Acres<br>Mature                                  | EXPENDITURE                 | Cost per<br>Acres | Acres<br>Mature | Cost per<br>Acres | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acres | EXPENDITURE | Cost per<br>Ton | Acres     | Tons Cane<br>Produced | Tons per<br>Acres | Cost per<br>Ton | Farm Expenditure<br>Excluding Depreciation | This Year | Last Year |
| BELOW YARD - 92% CANTONVILLE DISTRICT - 42 BEARS | 10                          | 190.43            | 19.04           |                   |              |                       |                   | 6.20        |                 |           |                       |                   |                 | 196.63                                     |           |           |
| Longview Park                                    | 94                          | 2,863.67          | 30.26           |                   |              |                       |                   | 268.47      |                 |           |                       |                   |                 | 3,213.04                                   |           |           |
| Wickenden Park                                   | 97                          | 3,592.46          | 37.04           |                   |              |                       |                   | 282.25      |                 |           |                       |                   |                 | 3,914.71                                   |           |           |
| Stony Park                                       | 7                           | 178.41            | 24.43           |                   |              |                       |                   | 5.02        |                 |           |                       |                   |                 | 197.43                                     |           |           |
| Bochar   | 33                          | 777.38            | 23.55           |                   |              |                       |                   | 32.52       |                 |           |                       |                   |                 | 808.94                                     |           |           |
| Phoenix Park                                     | 881                         | 80,982.71         | 92.14           |                   |              |                       |                   | 2,847.49    |                 |           |                       |                   |                 | 83,810.20                                  |           |           |
| Garson Park                                      | 413                         | 8,081.90          | 19.58           |                   |              |                       |                   | 1,674.27    |                 |           |                       |                   |                 | 9,756.17                                   |           |           |
| Superintendent's                                 |                             | 1,476.83          | 9.6             |                   |              |                       |                   |             |                 |           |                       |                   |                 | 1,476.83                                   |           |           |
| Lane Stock                                       |                             | 1,017.71          | 8.6             |                   |              |                       |                   |             |                 |           |                       |                   |                 | 1,017.71                                   |           |           |
| Total Period                                     | 1535                        | 40,095.24         | 21.38           |                   |              |                       |                   | 5,197.82    |                 |           |                       |                   |                 | 54,323.56                                  |           |           |
| Total Month                                      | 1305                        | 5,082.31          | 3.83            |                   |              |                       |                   | 800.47      |                 |           |                       |                   |                 | 6,712.78                                   |           |           |

Rate of Exchange = Month \$4.0500  
Period \$3.8848

October 5, 1940,

(Dad)

## UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1187 - BANANAS - FOR PERIOD ENDED SEPTEMBER 1940

FARM REPORT INCLUDING CULTIVATION DEPRECIATION AND PROPERTY LOSSES

| District   | Acres<br>in<br>Bearing | Mainten-<br>ance | Har-<br>vesting<br>U. S. Currency | Cult. Depra.<br>and<br>Prop. Losses<br>U. S. Currency | Counts  | Cost per count                    |  | Cost per Acre                                |                                      |
|------------|------------------------|------------------|-----------------------------------|---|---------|-----------------------------------|--|--|--------------------------------------|
|            |                        |                  |                                   |   |         | Har-<br>vesting<br>U. S. Currency | Cult.<br>Depra.<br>& Prop.<br>Losses<br>U. S. Currency | Cult.<br>Depra.<br>& Prop.<br>Losses<br>only | Cult.<br>Depra.<br>& Prop.<br>Losses |
| St. Cath   | 3,308                  | 252,182          | 21,713                            | 95,530  | 453,428 | .604                              | .211   | 76.37  | 26.93                                |
| St. Thomas | 375                    | 24,675           | 1,167                             | 8,822   | 28,494  | .907                              | .310   | 65.80  | 23.53                                |
| TOTAL      | 3,677                  | 276,857          | 22,880                            | 104,352   | 481,922 | .621                              | .217   | 75.29  | 28.38                                |

Farm cost includes treating "Leaf Spot" and "Panama Disease" which work out @ \$ .096 per count bunch.

Copy to: Mr. A. A. Pollen  
Mr. T. Bradshaw  
Dr. W. Popenoe

Kingston, JAMAICA  
October 3, 1940

UNITED FRUIT

COMPANY,

JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED SEPTEMBER 1940

PRODUCT BANANAS

| FARMS                | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |         |               | COST PER COUNT |           |            | COST PER ACRE MTC. ONLY |             |
|----------------------|-----------|------------|---|------------|------------|---------|---------------|----------------|-----------|------------|-------------------------|-------------|
|                      | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Ots. PER ACRE | COUNT RATIO    | Farm Mtc. | Harvesting |                         | Farm Deprn. |
| <b>ST. CATHERINE</b> |           |            |   |            |            |         |               |                |           |            |                         |             |
| Watson Grove         | 221       | 221        | 15,557  | 1,056      | 54,238     | 22,956  | 103.5         | .668           | .672      | .048       | .364                    | 69.48       |
|                      | 191       | 191        | 15,587  | 2,190      | 76,160     | 68,511  | 358.7         | .900           | .738      | .036       | .107                    | 81.31       |
| Congreve Park        | 827       | 827        | 55,545  | 4,858      | 166,838    | 123,196 | 149.0         | .659           | .481      | .039       | .285                    | 67.16       |
|                      | 483       | 483        | 42,555  | 7,267      | 355,340    | 213,166 | 441.3         | .803           | .200      | .034       | .134                    | 85.11       |
| Twickenham Park      | 50        | 50         | 4,736   | 683        | 18,023     | 12,437  | 248.7         | .690           | .381      | .055       | .454                    | 94.78       |
|                      | 6         | 6          | 1,798   | 359        | 7,589      | 6,490   | 1061.7        | .854           | .277      | .055       | .698                    | 299.75      |
| Bushy Park           | 270       | 270        | 22,627  | 2,865      | 45,195     | 27,366  | 101.4         | .606           | .827      | .105       | .831                    | 83.80       |
|                      | 94        | 94         | 10,550  | 3,467      | 60,302     | 42,885  | 456.2         | .711           | .345      | .081       | .594                    | 112.23      |
| Half-Way-Tree        | 524       | 524        | 32,326  | 4,007      | 117,854    | 82,547  | 157.5         | .700           | .392      | .049       | .217                    | 61.69       |
|                      | 367       | 367        | 26,947  | 5,925      | 178,977    | 156,172 | 425.5         | .873           | .173      | .038       | .181                    | 73.42       |
| Bernard Lodge        | 210       | 210        | 17,559  | 1,329      | 45,830     | 31,621  | 150.6         | .690           | .555      | .042       | .642                    | 83.61       |
|                      | 127       | 127        | 12,948  | 1,704      | 53,541     | 42,287  | 333.0         | .788           | .308      | .040       | .417                    | 101.96      |
| Coshen               | 364       | 364        | 26,558  | 2,156      | 68,064     | 48,988  | 132.9         | .711           | .551      | .045       | .528                    | 73.36       |
|                      | 246       | 246        | 23,272  | 3,219      | 108,224    | 98,701  | 401.2         | .913           | .226      | .035       | .228                    | 94.60       |
| Phoenix Park         | 444       | 444        | 28,738  | 2,499      | 78,892     | 53,654  | 120.8         | .680           | .536      | .047       | .587                    | 64.73       |
|                      | 356       | 356        | 26,472  | 4,778      | 147,427    | 126,593 | 355.6         | .859           | .209      | .039       | .223                    | 74.30       |
| Laurencefield        | 392       | 392        | 29,531  | 2,260      | 73,842     | 51,973  | 131.1         | .696           | .556      | .044       | .556                    | 72.78       |
|                      | 260       | 260        | 27,614  | 2,925      | 95,383     | 82,450  | 317.3         | .865           | .335      | .035       | .314                    | 106.11      |
| Superintendence      |           |            | 14,161  |            |            |         |               |                |           | .061       |                         | 4.29        |
|                      |           |            | 14,098  |            |            |         |               |                |           | .017       |                         | 6.82        |
| Live Stock           |           |            | 5,944   |            |            |         |               |                |           | .013       |                         | 1.60        |
|                      |           |            | 5,054   |            |            |         |               |                |           | .006       |                         | 2.37        |
| Total Period         | 3,302     | 3,302      | 252,182   | 21,713     | 668,776    | 453,428 | 137.3         | .678           | .556      | .048       | .431                    | 76.39       |
|                      | 2,130     | 2,130      | 206,893   | 31,834     | 993,048    | 837,266 | 393.1         | .843           | .347      | .039       | .238                    | 97.18       |
| Total Month          | 3,586     | 3,586      | 29,979  | 3,578      | 97,429     | 73,106  | 20.4          | .750           | .402      | .046       | .298                    | 8.19        |
|                      | 3,032     | 3,032      | 21,750  | 2,680      | 96,035     | 78,773  | 26.0          | .818           | .276      | .033       | .231                    | 7.17        |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
| <b>ST. THOMAS</b>    |           |            |   |            |            |         |               |                |           |            |                         |             |
| Springfield          | 72        | 72         | 4,482   | 223        | 10,560     | 5,775   | 80.2          | .547           | .775      | .039       | .561                    | 62.25       |
|                      | 41        | 41         | 3,595   | 453        | 21,177     | 14,633  | 356.7         | .891           | .248      | .032       | .088                    | 87.67       |
| Albion               | 303       | 303        | 19,649  | 944        | 33,834     | 22,719  | 75.0          | .671           | .865      | .042       | .843                    | 64.85       |
|                      | 450       | 450        | 26,957  | 2,593      | 107,922    | 76,330  | 169.6         | .707           | .353      | .034       | .293                    | 89.90       |
| Superintendence      |           |            | 544   |            |            |         |               |                |           | .019       |                         | 1.46        |
|                      |           |            | 695   |            |            |         |               |                |           | .008       |                         | 1.41        |
| Live Stock           |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            | 99  |            |            |         |               |                |           | .001       |                         | .30         |
| Total Period         | 375       | 375        | 24,675  | 1,167      | 44,394     | 28,494  | 76.0          | .642           | .886      | .041       | .746                    | 62.90       |
|                      | 491       | 491        | 31,246  | 3,056      | 129,099    | 90,253  | 185.2         | .705           | .345      | .034       | .160                    | 83.84       |
| Total Month          | 390       | 390        | 2,887   | 215        | 7,349      | 5,545   | 14.2          | .755           | .521      | .039       | .614                    | 7.40        |
|                      | 567       | 567        | 2,685   | 163        | 8,170      | 6,311   | 11.1          | .772           | .425      | .026       | .455                    | 4.73        |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |
|                      |           |            |   |            |            |         |               |                |           |            |                         |             |

October 3, 1940.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts: Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ○Farm Depreciation (Include Irrigation and Disease Control)

UNITED FRUIT

COMPANY,

JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED

SEPTEMBER 1940

PRODUCT

BANANAS

| FARMS                         | ACREAGE   |            | Δ EXPENDITURE                                   |            | PRODUCTION |         |               | COST PER COUNT |            |            | COST PER ACRE MTCE. ONLY |             |
|-------------------------------|-----------|------------|---|------------|------------|---------|---------------|----------------|------------|------------|--------------------------|-------------|
|                               | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Cts. PER ACRE | COUNT RATIO    | Farm Mtce. | Harvesting |                          | Farm Deprn. |
| <b>RECAPITULATION</b>         |           |            |   |            |            |         |               |                |            |            |                          |             |
| <b>PERIOD - 39 Weeks</b>      |           |            |   |            |            |         |               |                |            |            |                          |             |
| St. Catherine                 | 3,302     | 3,302      | 252,182   | 21,713     | 668,776    | 453,428 | 137.3         | .678           | .556       | .048       | .431                     | 76.39       |
|                               | 2,130     | 2,130      | 206,893   | 31,834     | 893,048    | 837,266 | 393.1         | .643           | .247       | .038       | .228                     | 97.13       |
| St. Thomas                    | 375       | 375        | 24,075  | 1,167      | 44,324     | 28,494  | 76.0          | .642           | .866       | .041       | .746                     | 65.80       |
|                               | 491       | 491        | 31,848  | 3,658      | 139,099    | 90,933  | 185.2         | .703           | .353       | .034       | .260                     | 53.24       |
| Total Period                  | 3,677     | 3,677      | 276,657   | 22,880     | 713,170    | 481,922 | 131.1         | .676           | .574       | .047       | .419                     | 75.89       |
|                               | 2,621     | 2,621      | 238,239   | 34,690     | 1,112,147  | 928,219 | 354.1         | .637           | .277       | .036       | .231                     | 69.40       |
| <b>MONTH - 4 Weeks</b>        |           |            |   |            |            |         |               |                |            |            |                          |             |
| St. Catherine                 | 3,586     | 3,586      | 29,379  | 3,378      | 97,429     | 73,106  | 80.4          | .750           | .402       | .046       | .296                     | 6.19        |
|                               | 3,032     | 3,032      | 21,750  | 2,580      | 96,335     | 78,775  | 86.0          | .818           | .276       | .033       | .331                     | 7.17        |
| St. Thomas                    | 390       | 390        | 2,887   | 215        | 7,349      | 5,545   | 14.2          | .755           | .521       | .029       | .414                     | 7.40        |
|                               | 567       | 567        | 3,685   | 162        | 8,170      | 6,311   | 11.1          | .772           | .435       | .016       | .466                     | 4.73        |
| Total Month                   | 3,976     | 3,976      | 32,266  | 3,593      | 104,778    | 78,651  | 19.8          | .751           | .410       | .046       | .306                     | 6.12        |
|                               | 3,599     | 3,599      | 24,435  | 2,742      | 104,305    | 85,084  | 23.3          | .814           | .287       | .032       | .341                     | 6.79        |
| Rate of Exchange - 1940 Month |           |            |   |            |            |         |               |                |            |            |                          |             |
| 1940 Period                   |           |            |   |            |            |         |               |                |            |            |                          |             |
| 1939 Period                   |           |            |   |            |            |         |               |                |            |            |                          |             |

October 3, 1940.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ○Farm Depreciation (Include Irrigation and Disease Control)

1941 CROP

PERIOD COMMENCED: 4-29-40

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF October 1941

## SUPERINTENDENCE AND CULTIVATION

## HARVESTING

## TOTAL COST

| NO. OF WEEKS<br>FARM                                      | THIS YEAR       |            |                  |                 | LAST YEAR        |              |                       |                  | THIS YEAR |                 |              |                       | LAST YEAR        |                 |   |           | THIS YEAR |  | LAST YEAR |  |
|---|-----------------|------------|------------------|-----------------|------------------|--------------|-----------------------|------------------|-----------|-----------------|--------------|-----------------------|------------------|-----------------|---|-----------|-----------|--|-----------|--|
|   | Acres<br>Mature | ELIMINATED | Cost per<br>Acre | Acres<br>Mature | Cost per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | KEROSENE  | Cost per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | Cost per<br>Ton | Farm Expenditure<br>Excludes Depreciation | This Year | Last Year |  |           |  |
| <i>Forward 1940's - St. Catherine District - 26 weeks</i> |                 |            |                  |                 |                  |              |                       |                  |           |                 |              |                       |                  |                 |   |           |           |  |           |  |
| Doerewe Park 10   | 10              |            | 897.14           | 22.72           |                  |              |                       |                  | 7.63      |                 |              |                       |                  |                 | 234.84                                    |           |           |  |           |  |
| Rick Park 04  | 04              |            | 3.148            | 33.35           | 49               |              |                       | 439.08           |           |                 |              |                       |                  |                 | 3.577                                     | 45        |           |  |           |  |
| Bushy Park 97   | 97              |            | 4.280            | 49.45           | 92               |              |                       | 268.95           |           |                 |              |                       |                  |                 | 4.510                                     | 44        |           |  |           |  |
| Docton 7  | 7               |            | 1.96             | 81.98           | 12               |              |                       | 5.97             |           |                 |              |                       |                  |                 | 903.68                                    |           |           |  |           |  |
| Phocant Park 33   | 33              |            | 930.69           | 26.17           |                  |              |                       | 52.65            |           |                 |              |                       |                  |                 | 884.24                                    |           |           |  |           |  |
| Wrench Pen 969  | 969             |            | 8.647            | 69.81           | 66               |              |                       | 3.827            | 63        |                 |              |                       |                  |                 | 97.016                                    | 75        |           |  |           |  |
| Windsor Park 415  | 415             |            | 1.755            | 28.1.15         |                  |              |                       | 1.913            | 66        |                 |              |                       |                  |                 | 1.753                                     | 23        |           |  |           |  |
| Subtee - Live Stock                                       |                 |            | 1.067            | 58.20           |                  |              |                       |                  |           |                 |              |                       |                  |                 | 1.067                                     | 65        |           |  |           |  |
| Total Period  | 1503            |            | 54.111           | 98.35           | 53               |              |                       | 6.006            | 52        |                 |              |                       |                  |                 | 60.117                                    | 61        |           |  |           |  |
| Total Month   | 1533            |            | 5.018            | 75.3.29         |                  |              |                       | 849.30           |           |                 |              |                       |                  |                 | 5.865                                     | 06        |           |  |           |  |

Part of Total - Month \$4,030.00  
- Period \$5,715.1

October 31, 1940

(Date)



FARM REPORT FOR PERIOD ENDED

OCTOBER 1940

PRODUCT BANANAS

| FARMS                | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |         |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTC. ONLY |
|----------------------|-----------|------------|---|------------|------------|---------|---------------|-------------|----------------|------------|-------------|-------------------------|
|                      | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Cts. PER ACRE |             | Farm Mtc.      | Harvesting | Farm Deprn. |                         |
| <b>ST. CATHERINE</b> |           |            |   |            |            |         |               |             |                |            |             |                         |
| Watson Grove         | 294       | 294        | 16,799  | 1,269      | 39,174     | 27,304  | 121.9         | .697        | .615           | .046       | .340        | 75.00                   |
|                      | 195       | 195        | 17,065  | 2,268      | 78,180     | 70,294  | 350.5         | .899        | .243           | .032       | .119        | 87.63                   |
| Congreve Park        | 831       | 831        | 61,832  | 5,434      | 205,326    | 139,719 | 166.9         | .676        | .446           | .039       | .279        | 74.41                   |
|                      | 514       | 514        | 47,564  | 7,754      | 281,693    | 226,081 | 439.8         | .803        | .210           | .034       | .149        | 93.54                   |
| Twickenham Park      | 51        | 51         | 5,136   | 749        | 18,861     | 13,148  | 257.8         | .697        | .391           | .057       | .478        | 100.71                  |
|                      | 7         | 7          | 2,077   | 532        | 7,801      | 6,562   | 951.7         | .354        | .313           | .037       | .767        | 222.71                  |
| Bushy Park           | 267       | 267        | 24,886  | 3,301      | 52,127     | 33,205  | 124.4         | .637        | .750           | .099       | .761        | 93.21                   |
|                      | 113       | 113        | 12,571  | 3,992      | 72,325     | 52,508  | 424.7         | .725        | .230           | .078       | .377        | 111.41                  |
| Half Way Tree        | 531       | 531        | 35,611  | 4,425      | 130,840    | 93,515  | 176.1         | .715        | .391           | .048       | .214        | 67.08                   |
|                      | 372       | 372        | 29,405  | 6,197      | 186,221    | 132,902 | 431.0         | .875        | .180           | .039       | .196        | 77.79                   |
| Barnard Lodge        | 212       | 212        | 19,351  | 1,513      | 51,170     | 36,130  | 170.4         | .706        | .536           | .042       | .522        | 91.28                   |
|                      | 134       | 134        | 14,117  | 1,799      | 37,673     | 45,690  | 341.0         | .792        | .309           | .039       | .438        | 105.35                  |
| Goshen               | 366       | 366        | 22,375  | 2,483      | 77,173     | 56,353  | 154.0         | .730        | .521           | .044       | .502        | 80.25                   |
|                      | 252       | 252        | 25,125  | 3,516      | 111,108    | 101,067 | 401.1         | .910        | .249           | .035       | .250        | 99.70                   |
| Phoenix Park         | 442       | 442        | 32,482  | 2,370      | 90,652     | 63,482  | 141.7         | .700        | .512           | .047       | .532        | 72.50                   |
|                      | 359       | 359        | 28,244  | 5,032      | 158,469    | 135,247 | 369.2         | .850        | .212           | .037       | .267        | 78.41                   |
| Lawrencefield        | 396       | 396        | 31,426  | 2,563      | 81,780     | 58,043  | 146.6         | .710        | .541           | .044       | .548        | 79.36                   |
|                      | 265       | 265        | 22,265  | 3,018      | 92,784     | 69,222  | 321.9         | .363        | .351           | .055       | .440        | 112.05                  |
| Superintendence      |           |            | 15,662  |            |            |         |               |             |                | .031       |             | 4.78                    |
|                      |           |            | 15,452  |            |            |         |               |             |                | .017       |             | 3.24                    |
| Live Stock           |           |            | 6,119   |            |            |         |               |             |                | .012       |             | 1.84                    |
|                      |           |            | 5,354   |            |            |         |               |             |                | .005       |             | 0.11                    |
| Total Period         | 3,322     | 3,322      | 278,897   | 24,766     | 747,103    | 512,827 | 156.3         | .696        | .536           | .048       | .418        | 83.25                   |
|                      | 2,227     | 2,227      | 237,560   | 23,740     | 1,022,224  | 826,743 | 593.2         | .843        | .257           | .038       | .247        | 102.22                  |
| Total Month          | 3,542     | 3,542      | 26,714  | 3,054      | 78,327     | 66,469  | 18.2          | .849        | .402           | .046       | .328        | 7.54                    |
|                      | 3,027     | 3,027      | 20,787  | 1,906      | 69,843     | 49,477  | 16.0          | .835        | .420           | .039       | .556        | 6.71                    |
| <b>ST. THOMAS</b>    |           |            |   |            |            |         |               |             |                |            |             |                         |
| Springfield          | 74        | 74         | 4,281   | 286        | 13,957     | 8,231   | 111.2         | .590        | .605           | .035       | .286        | 67.31                   |
|                      | 42        | 42         | 3,855   | 471        | 21,524     | 14,832  | 354.3         | .621        | .269           | .033       | .098        | 91.79                   |
| Albion               | 294       | 294        | 21,474  | 1,087      | 38,625     | 26,920  | 91.6          | .697        | .798           | .040       | .786        | 73.04                   |
|                      | 456       | 456        | 20,180  | 2,878      | 111,085    | 78,397  | 173.2         | .711        | .382           | .034       | .318        | 68.13                   |
| Superintendence      |           |            | 611   |            |            |         |               |             |                | .017       |             | 1.66                    |
|                      |           |            | 755   |            |            |         |               |             |                | .009       |             | 1.82                    |
| Live Stock           |           |            |   |            |            |         |               |             |                | .001       |             | .20                     |
| Total Period         | 368       | 368        | 27,066  | 1,373      | 52,583     | 32,151  | 95.5          | .668        | .770           | .039       | .670        | 73.55                   |
|                      | 438       | 438        | 34,869  | 5,142      | 132,509    | 92,879  | 188.5         | .708        | .371           | .034       | .254        | 79.33                   |
| Total Month          | 301       | 301        | 2,392   | 205        | 8,189      | 6,657   | 22.1          | .813        | .559           | .031       | .245        | 7.25                    |
|                      | 567       | 567        | 3,523   | 35         | 3,510      | 2,926   | 5.2           | .624        | 1.204          | .022       | 1.005       | 5.21                    |

October 31, 1940.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 ‡Use two lines for each farm. Show last year's figures in red.  
 §Report even dollars only eliminating cents.  
 ¶Farm Depreciation (Include Irrigation and Disease Control)

UNITED FRUIT

COMPANY,

JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED OCTOBER 1940 PRODUCT BANANAS

| FARMS                                  | ACREAGE   |            | Δ EXPENDITURE                                   |            | PRODUCTION |         |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|--|-----------|------------|---|------------|------------|---------|---------------|-------------|----------------|------------|-------------|--------------------------|
|  | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Cts. PER ACRE |             | Farm Mtce.     | Harvesting | Farm Deprn. |                          |
| <u>RECAPITULATION</u>                  |           |            |   |            |            |         |               |             |                |            |             |                          |
| <u>PERIOD - 43 Weeks</u>               |           |            |   |            |            |         |               |             |                |            |             |                          |
| St. Catherine                          | 3,326     | 3,326      | 278,697   | 24,766     | 747,103    | 519,897 | 156.3         | .696        | .536           | .046       | .418        | 85.85                    |
|  | 2,227     | 2,227      | 227,680   | 33,743     | 1058,394   | 836,743 | 398.2         | .843        | .337           | .038       | .247        | 101.24                   |
| St. Thomas                             | 368       | 368        | 27,066  | 1,373      | 52,583     | 55,151  | 95.5          | .668        | .770           | .039       | .670        | 73.55                    |
|  | 498       | 498        | 34,869  | 3,143      | 122,509    | 93,879  | 189.5         | .705        | .571           | .034       | .584        | 70.02                    |
| Total Period                           | 3,694     | 3,694      | 305,963   | 26,139     | 799,686    | 555,048 | 150.3         | .694        | .551           | .047       | .434        | 82.83                    |
|  | 2,725     | 2,725      | 252,549   | 36,889     | 1134,903   | 930,522 | 359.7         | .826        | .468           | .038       | .50         | 96.35                    |
| <u>MONTH - 4 Weeks</u>                 |           |            |   |            |            |         |               |             |                |            |             |                          |
| St. Catherine                          | 3,542     | 3,542      | 26,714  | 3,054      | 78,327     | 66,469  | 18.8          | .849        | .402           | .046       | .328        | 7.54                     |
|  | 3,037     | 3,037      | 20,787  | 1,906      | 59,345     | 49,477  | 16.0          | .835        | .420           | .039       | .366        | 6.71                     |
| St. Thomas                             | 301       | 301        | 2,392   | 205        | 6,189      | 6,657   | 22.1          | .913        | .359           | .031       | .345        | 7.95                     |
|  | 527       | 527        | 3,523   | 93         | 3,510      | 2,926   | 5.2           | .834        | .24            | .032       | .205        | 6.21                     |
| Total Month                            | 3,843     | 3,843      | 29,106  | 3,259      | 86,516     | 73,126  | 19.0          | .845        | .398           | .045       | .320        | 7.57                     |
|  | 3,564     | 3,564      | 24,310  | 1,999      | 62,756     | 52,403  | 14.3          | .835        | .434           | .028       | .390        | 6.63                     |
| Rate of Exchange - 1940 Month \$4.0300 |           |            |   |            |            |         |               |             |                |            |             |                          |
| 1940 Period \$5.8357                   |           |            |   |            |            |         |               |             |                |            |             |                          |
| 1939 Period \$4.547                    |           |            |   |            |            |         |               |             |                |            |             |                          |

October 31, 1940.

DATE

\*Average under Irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 ‡Use two lines for each farm. Show last year's figures in red.  
 Δ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (Include Irrigation and Disease Control)

## UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1197 - BANANAS - FOR PERIOD ENDED OCTOBER 1940FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| District   | Acres<br>in<br>Bearing | Mainten-<br>ance | Har-<br>vesting | Cult. Deprn.<br>and<br>Prop. Losses | Counts  | Cost per count  |                           | Cost per acre                      |                                    |
|------------|------------------------|------------------|-----------------|-------------------------------------|---------|-----------------|---------------------------|------------------------------------|------------------------------------|
|            |                        |                  |                 |                                     |         | Har-<br>vesting | Cult.<br>& Prop<br>Losses | Cult<br>Deprn.<br>& Prop<br>Losses | Cult<br>Deprn.<br>& Prop<br>Losses |
|            |                        |                  |                 |                                     |         | U. S. Currency  |                           | U. S. Currency                     |                                    |
| St. Cath.  | 3,328                  | 376,897          | 24,766          | 108,124                             | 512,897 | .594            | 307                       | 33.85                              | 32.31                              |
| St. Thomas | 368                    | 27,066           | 1,273           | 9,810                               | 85,151  | .809            | 279                       | 73.55                              | 26.68                              |
| Total      | 3,696                  | 403,963          | 26,039          | 117,934                             | 598,048 | .598            | 312                       | 82.83                              | 31.95                              |

Farm cost includes treating "Leaf Spot" and "Panama Disease" which  
work out @ \$.095 per count bunch.

Copy to: Mr. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popenoe

Kingston, JAMAICA,  
October 31, 1940

1941 CROP

PERIOD COMMENCED:

29. 4.40

UNITED FRUIT

FARM REPORT—SUGAR

Form 1147-S

COMPANY, JAVAYA

DIVISION

PERIOD ENDED WITH MONTH OF AUGUST 1940.

| NO. OF WEEKS<br>FARM | SImpLEMENTANCE AND CULTIVATION                            |                  |                 |                  |      |                       |                  |             |                 |              |                       | HARVESTING       |                 |   |                 |                 |   |                 |                 |   |                 |                 | TOTAL COST                                  |                 |                 |              |  |
|----------------------|---|------------------|-----------------|------------------|------|-----------------------|------------------|-------------|-----------------|--------------|-----------------------|------------------|-----------------|---|-----------------|-----------------|---|-----------------|-----------------|---|-----------------|-----------------|---|-----------------|-----------------|--------------|--|
|                      | THIS YEAR   |                  |                 |                  |      |                       | LAST YEAR        |             |                 |              |                       | THIS YEAR        |                 |   |                 |                 |   | LAST YEAR       |                 |   |                 |                 | THIS YEAR                                   |                 |                 | COST PER TON |  |
| Acres<br>Mature      | EXPENDITURE   | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Cuts | Tons Cane<br>Produced | Tons per<br>Acre | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | Coal per<br>Ton | Farm Expenditure<br>Excludes 4 Depreciables | Ton per<br>Acre | Coal per<br>Ton | Farm Expenditure<br>Excludes 4 Depreciables | Ton per<br>Acre | Coal per<br>Ton | Farm Expenditure<br>Excludes 4 Depreciables | Ton per<br>Acre | Coal per<br>Ton | Farm Expenditure<br>Excludes 4 Depreciables | Ton per<br>Acre | Coal per<br>Ton |              |  |
|                      | <b>BEHAVIOR INDEX - 97. CATERPILLAR INSECT - 18 Weeks</b> |                  |                 |                  |      |                       |                  |             |                 |              |                       |                  |                 |   |                 |                 |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Conover Park         | 10  | 167              | 61              | 16               | 79   |                       |                  | 5           | 08              |              |                       |                  |                 | 179   | 69              |                 |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Trickomban PK        | 94  | 3                | 494             | 58               | 26   | 54                    |                  | 311         | 01              |              |                       |                  |                 | 2   | 806             | 53              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Eubay Park           | 97  | 3                | 094             | 71               | 31   | 49                    |                  | 184         | 85              |              |                       |                  |                 | 3   | 239             | 26              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Gooden               | 7   | 1                | 57              | 00               | 22   | 43                    |                  | 4           | 30              |              |                       |                  |                 | 1   | 61              | 30              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Phoenix Park         | 53  | 6                | 96              | 18               | 21   | 10                    |                  | 25          | 78              |              |                       |                  |                 | 7   | 21              | 94              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Marvyn Farm          | 981   | 27               | 677             | 01               | 31   | 4.8                   |                  | 2           | 378             | 19           |                       |                  |                 | 30  | 050             | 80              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Kindour Park         | 415   | 6                | 988             | 79               | 16   | 92                    |                  | 1           | 422             | 96           |                       |                  |                 | 8   | 408             | 65              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Superintendence      |   | 1                | 060             | 79               |      | 68                    |                  |             |                 |              |                       |                  |                 | 1   | 050             | 79              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Lava Stook           |   | 928              | 48              |                  |      | 60                    |                  | 4           | 326             | 75           |                       |                  |                 | 47  | 539             | 79              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Total Period         | 1603  | 43               | 313             | 08               | 69   | 16                    |                  | 1           | 889             | 44           |                       |                  |                 | 12  | 823             | 67              |   |                 |                 |   |                 |                 |   |                 |                 |              |  |
| Total Month          | 1085  | 11               | 528             | 23               | 7    | 53                    |                  |             |                 |              |                       |                  |                 |   |                 |                 |   |                 |                 |   |                 |                 |   |                 |                 |              |  |

Date of Exchange - March  
Period \$4,0800  
\$5,6418

September 5, 1940.

(Date)

1941 CROP

TRINCO FERTIL

COMPANY,

JAMAICA

DIVISION

PERIOD COMMENCED: 26/4/40

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF JULY 1940

| NO. OF WEEKS<br>FARM                                | SUPERINTENDENT AND CULTIVATION |                  |                 |                  |              |                      | HARVESTING      |             |                 |              |                      |                 | TOTAL           |   |              |           |
|---|--------------------------------|------------------|-----------------|------------------|--------------|----------------------|-----------------|-------------|-----------------|--------------|----------------------|-----------------|-----------------|---|--------------|-----------|
|   | THIS YEAR                      |                  |                 | LAST YEAR        |              |                      | THIS YEAR       |             |                 | LAST YEAR    |                      |                 | THIS YEAR       |   | COST PER TON |           |
| Acres<br>Mature                                     | EXPENDITURE                    | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Ton Cane<br>Produced | Ton per<br>Acre | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Ton Cane<br>Produced | Ton per<br>Acre | Coal per<br>Ton | Farm Expenditure<br>Excludes 41 Depreciable | This Year    | Last Year |
| BERNARD JONES - ST. CATHARINE'S DISTRICT - 42 ACRES |                                |                  |                 |                  |              |                      |                 |             |                 |              |                      |                 |                 |   |              |           |
| CONGRESSIVE Pk. 10                                  | 222 58                         | 28 25            |                 |                  |              |                      |                 | 5 62        |                 |              |                      |                 |                 | 226 14                                      |              |           |
| Taylor Pk. 1  | 1 783                          | 85 18            |                 |                  |              |                      |                 | 226 21      |                 |              |                      |                 |                 | 1 592 07                                    |              |           |
| Dunlop Park 97                                      | 2 374                          | 04 24            | 47              |                  |              |                      |                 | 107 24      |                 |              |                      |                 |                 | 2 481 26                                    |              |           |
| Goshon 7  | 145                            | 95 21            | 42              |                  |              |                      |                 | 5 10        |                 |              |                      |                 |                 | 153 05                                      |              |           |
| Phoscoric Pk. 33                                    | 546                            | 55 16            | 55              |                  |              |                      |                 | 21 93       |                 |              |                      |                 |                 | 568 48                                      |              |           |
| Maroon Pen 881                                      | 20 209                         | 53 22            | 54              |                  |              |                      |                 | 1 659 29    |                 |              |                      |                 |                 | 21 868 98                                   |              |           |
| Mindoo Pk. 413                                      | 4 837                          | 23 11            | 71              |                  |              |                      |                 | 1 044 92    |                 |              |                      |                 |                 | 5 982 15                                    |              |           |
| Suppoe.   | 686                            | 40               | 45              |                  |              |                      |                 | 666 40      |                 |              |                      |                 |                 | 666 40                                      |              |           |
| Live Stock  | 537                            | 52               | 55              |                  |              |                      |                 | 537 52      |                 |              |                      |                 |                 | 537 52                                      |              |           |
| Total Period 1335                                   | 31 647                         | 80 20            | 62              |                  |              |                      |                 | 3 068 31    |                 |              |                      |                 |                 | 36 716 11                                   |              |           |
| Total Month 1595                                    | 7 408                          | 18 4 83          |                 |                  |              |                      |                 | 1 355 10    |                 |              |                      |                 |                 | 9 723 28                                    |              |           |

Rate of Exchange - South \$3.8189  
- Florida \$2.5272

August 1, 1940 (Date)

## UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1167 - BANANAS - FOR PERIOD ENDED JULY 1940  
FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| District     | Acres<br>in<br>Bearing | Mainten-<br>ance  | Har-<br>vesting<br>U. S. Currency | Cult. Depra.<br>and<br>Prop. Losses<br>U. S. Currency | Counts         | Cost per count                    |  | Cost per acre  |  |
|--------------|------------------------|-------------------|-----------------------------------|---|----------------|-----------------------------------|--|--|--|
|              |                        |                   |                                   |   |                | Har-<br>vesting<br>U. S. Currency | Cult.<br>Deprn.<br>& Prop.<br>Losses<br>U. S. Currency | Cult.<br>Depra.<br>& Prop.<br>Losses<br>U. S. Currency | Cult.<br>Depra.<br>& Prop.<br>Losses<br>U. S. Currency |
| St. Cath.    | 3,219                  | 184,178.79        | 14,898.54                         | 70,483.90   | 312,661        | .637                              | .226   | 57.22  | 21.80  |
| St. Thomas   | 371                    | 17,954.42         | 710.64                            | 8,597.30  | 16,426         | 1.135                             | .402   | 42.34  | 17.78  |
| <b>TOTAL</b> | <b>3,590</b>           | <b>202,113.21</b> | <b>15,609.18</b>                  | <b>77,081.20</b>                                      | <b>329,307</b> | <b>.661</b>                       | <b>.234</b>  | <b>56.20</b>   | <b>21.47</b>   |

Farm cost includes treating "Leaf Spot" and

"Panama Disease", which work out @ \$.101 per count bunch.

Copy to: Mr. A. A. Pollak  
 Mr. T. Bradshaw  
 Dr. W. Popeoe

Kingston, JAMAICA  
 August 1, 1940.

*Johnnie*  
Johnnie

UNITED FRUIT COMPANY, DIVISION

FARM REPORT FOR PERIOD ENDED MONTHS JULY 1940 PRODUCT BANANAS

| FARMS                | ACREAGE             |           |            | EXPENDITURE      |            | PRODUCTION |        |                 | COUNT | COST PER COUNT |           | COST PER ACRE MTC. ONLY |
|----------------------|---------------------|-----------|------------|------------------|------------|------------|--------|-----------------|-------|----------------|-----------|-------------------------|
|                      | Cost Per Ct. Deprn. | IRRIGATED | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems      | Counts | † Cts. PER ACRE |       | RATIO          | FARM MTC. |                         |
| <u>St. Catharine</u> |                     |           |            |                  |            |            |        |                 |       |                |           |                         |
| Matson Grove         | .415                | 215       | 215        | 11202.50         | 714.57     | 24042      | 14733  | 68.6            | .814  | .759           | .048      | 58.10                   |
|                      | .090                | 181       | 181        | 12095.91         | 186.01     | 6400       | 32100  | 301.0           | .907  | .08            | .03       | 33.23                   |
| Congreve Pk.         | .293                | 811       | 811        | 39203.84         | 3520.93    | 127178     | 89277  | 110.1           | .651  | .446           | .040      | 42.08                   |
|                      | .118                | 411       | 411        | 31227.51         | 5503.82    | 198846     | 132192 | 297.1           | .3.1  | .192           | .036      | 76.56                   |
| Trick Park           | .441                | 45        | 45         | 3172.74          | 511.84     | 14131      | 9499   | 211.1           | .872  | .334           | .054      | 70.81                   |
|                      | .259                | 3         | 3          | 1078.93          | 266.62     | 5409       | 6528   | 1643.0          | .856  | .233           | .032      | 35.54                   |
| Busy Park            | .918                | 269       | 269        | 16229.24         | 1925.29    | 33137      | 18769  | 69.7            | .588  | .661           | .103      | 61.45                   |
|                      | .742                | 54        | 54         | 3510.84          | 2307.57    | 23094      | 23144  | 473.5           | .699  | .231           | .025      | 120.37                  |
| Half-Way-Tree        | .331                | 508       | 508        | 23280.02         | 2704.60    | 81993      | 56745  | 111.7           | .692  | .410           | .048      | 45.23                   |
|                      | .149                | 334       | 334        | 20791.34         | 3030.27    | 156192     | 137251 | 311.0           | .297  | .131           | .037      | 32.16                   |
| Bernard Lodge        | .715                | 207       | 207        | 13438.01         | 903.60     | 32165      | 21511  | 103.8           | .622  | .625           | .042      | 64.92                   |
|                      | .463                | 100       | 100        | 3965.79          | 1309.75    | 33283      | 26638  | 251.8           | .784  | .237           | .045      | 84.36                   |
| Coaban               | .531                | 357       | 357        | 19257.36         | 1523.33    | 51722      | 36378  | 101.3           | .703  | .538           | .044      | 54.22                   |
|                      | .192                | 229       | 229        | 17237.13         | 755.12     | 92199      | 60006  | 271.2           | .922  | .203           | .032      | 77.45                   |
| Phoenix Park         | .740                | 420       | 420        | 20225.46         | 1505.21    | 49640      | 31227  | 74.2            | .643  | .655           | .047      | 48.56                   |
|                      | .213                | 325       | 325        | 19753.98         | 4015.89    | 130796     | 102472 | 218.4           | .859  | .191           | .029      | 60.72                   |
| Laurencefield        | .524                | 377       | 377        | 20476.86         | 1459.37    | 52622      | 34034  | 90.5            | .872  | .602           | .043      | 54.32                   |
|                      | .283                | 245       | 245        | 20244.64         | 1323.58    | 75720      | 66663  | 273.2           | .881  | .305           | .035      | 83.04                   |
| Superintendence      |                     |           |            | 10425.64         |            |            |        |                 |       | .034           |           | 3.22                    |
|                      |                     |           |            | 10222.38         |            |            |        |                 |       | .016           |           | 0.66                    |
| Live Stock           |                     |           |            | 5228.44          |            |            |        |                 |       | .018           |           | 1.71                    |
|                      |                     |           |            | 4043.71          |            |            |        |                 |       | .005           |           | 2.14                    |
| Total Period         | .266                | 3219      | 3219       | 124178.79        | 14229.54   | 474750     | 312861 | 27.8            | .659  | .329           | .046      | 37.22                   |
|                      | .202                | 1828      | 1828       | 152472.66        | 23219.28   | 780104     | 668120 | 232.9           | .523  | .220           | .036      | 81.22                   |
| Total Month          | .524                | 3604      | 3604       | 20554.24         | 3244.20    | 115663     | 67171  | 18.8            | .591  | .455           | .050      | 8.42                    |
|                      | .234                | 2670      | 2670       | 24829.91         | 3628.73    | 114385     | 29034  | 33.2            | .776  | .278           | .041      | 9.20                    |
|                      |                     |           |            |                  |            |            |        |                 |       |                |           |                         |
|                      |                     |           |            |                  |            |            |        |                 |       |                |           |                         |
| <u>St. Thomas</u>    |                     |           |            |                  |            |            |        |                 |       |                |           |                         |
| Springfield          | .260                | 55        | 55         | 2974.92          | 87.29      | 4445       | 1925   | 28.2            | .433  | 1.545          | .045      | 43.75                   |
|                      | .069                | 39        | 39         | 2293.88          | 422.21     | 18903      | 13340  | 342.1           | .706  | .203           | .032      | 29.13                   |
| Albion               | 1.009               | 303       | 303        | 14545.05         | 623.25     | 22475      | 14501  | 47.2            | .618  | 1.003          | .043      | 42.00                   |
|                      | .265                | 420       | 420        | 20073.29         | 127.24     | 66483      | 61226  | 142.4           | .708  | .322           | .035      | 42.68                   |
| Superintendence      |                     |           |            | 414.45           |            |            |        |                 |       | .025           |           | 1.12                    |
|                      |                     |           |            | 545.94           |            |            |        |                 |       | .007           |           | 1.16                    |
| Live Stock           |                     |           |            |                  |            |            |        |                 |       | .001           |           | .12                     |
|                      |                     |           |            | 36.86            |            |            |        |                 |       |                |           |                         |
| Total Period         | .979                | 371       | 371        | 17934.42         | 710.64     | 27222      | 16426  | 44.2            | .522  | 1.022          | .043      | 42.34                   |
|                      | .230                | 429       | 429        | 24027.77         | 2529.45    | 102825     | 72568  | 159.0           | .708  | .214           | .022      | 42.24                   |
| Total Month          | .428                | 292       | 292        | 2413.37          | 175.19     | 6028       | 4709   | 12.0            | .524  | .513           | .033      | 6.16                    |
|                      | .227                | 261       | 261        | 2055.60          | 426.54     | 20057      | 11956  | 21.3            | .526  | .322           | .026      | 5.22                    |

August 1, 1940.  
DATE

\* Average under irrigation included in "In Bearing" figures.  
† Counts, Pounds, etc.  
Use two lines for each farm. Show last year's figures in red.

HOORING

UNITED FRUIT

COMPANY, JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED

JULY 1946

PRODUCT BANANAS

| EST. YEARS<br>390A<br>.50FM<br>Y180 | FARMS         | ACREAGE     |            | EXPENDITURE      |            | PRODUCTION |        |          | COUNT<br>RATIO                | COST PER COUNT |            | COST PER<br>ACRE<br>MTC. ONLY |       |
|-------------------------------------|---------------|-------------|------------|------------------|------------|------------|--------|----------|-------------------------------|----------------|------------|-------------------------------|-------|
|                                     |               | * IRRIGATED | IN BEARING | FARM MAINTENANCE | HARVESTING | Stems      | Counts | PER ACRE |                               | FARM MTC.      | HARVESTING |                               |       |
| RECAPITULATION                      |               |             |            |                  |            |            |        |          |                               |                |            |                               |       |
| Period - 30 Weeks                   |               |             |            |                  |            |            |        |          |                               |                |            |                               |       |
|                                     | St. Catherine | 468         | 3219       | 3219             | 184178.79  | 14898.54   | 474750 | 312981   | 97.2                          | .659           | .589       | .048                          | 57.22 |
|                                     |               | .20         | 1838       | 1838             | 153472.66  | 25319.28   | 730104 | 688130   | 353.9                         | .656           | .630       | .038                          | 61.29 |
|                                     | St. Thomas    | 979         | 371        | 371              | 17934.42   | 710.64     | 27922  | 16428    | 44.3                          | .533           | .092       | .043                          | 48.34 |
|                                     |               | .30         | 462        | 462              | 25402.77   | 1552.45    | 105285 | 74566    | 189.0                         | .708           | .314       | .034                          | 47.90 |
|                                     | Total Period  | 493         | 3590       | 3590             | 202113.91  | 16609.18   | 802252 | 329307   | 91.7                          | .655           | .614       | .047                          | 56.30 |
|                                     |               | .05         | 2387       | 2387             | 178275.45  | 27878.73   | 325489 | 742696   | 315.1                         | .639           | .638       | .039                          | 75.04 |
| Month - 4 Weeks                     |               |             |            |                  |            |            |        |          |                               |                |            |                               |       |
|                                     | St. Catherine | 304         | 2604       | 2604             | 30554.24   | 3346.30    | 113663 | 67171    | 18.6                          | .591           | .455       | .050                          | 8.42  |
|                                     |               | .234        | 2670       | 2670             | 24559.91   | 3628.76    | 114325 | 89024    | 33.3                          | .778           | .276       | .041                          | 9.20  |
|                                     | St. Thomas    | 488         | 592        | 592              | 2413.37    | 178.19     | 8083   | 4709     | 12.0                          | .524           | .512       | .038                          | 6.16  |
|                                     |               | .287        | 561        | 561              | 3853.58    | 126.54     | 20057  | 11955    | 1.3                           | .596           | .322       | .036                          | 6.87  |
|                                     | Total Month   | 324         | 3996       | 3996             | 32267.61   | 3524.39    | 121731 | 71880    | 18.0                          | .690           | .459       | .049                          | 8.25  |
|                                     |               | .333        | 3231       | 3231             | 28416.49   | 4055.30    | 154422 | 100980   | 31.3                          | .751           | .281       | .040                          | 8.79  |
|                                     |               |             |            |                  |            |            |        |          | Rate of Exchange - 1940 Month |                | \$7.8188   |                               |       |
|                                     |               |             |            |                  |            |            |        |          | - 1940 Period                 |                | \$7.7474   |                               |       |
|                                     |               |             |            |                  |            |            |        |          | - 1939 Period                 |                | \$4.689    |                               |       |

\* Average under irrigation included in "In Bearing" figures.

† Counts: Pounds, etc.

Use two lines for each farm. Show last year's figures in red.

DATE

August 1, 1946



W  
J. Papanicolaou, will keep you  
posted. add.

Cedar Grove Experiment Station,  
Gregory Park P.O.  
Jamaica, B.W.I.

November 12, 1940.

Dear Dunlap:

This will acknowledge receipt of your letter written from Honduras transmitting photographs of the palatial residence in Bedouin Main. I am glad that the old four-poster finally found a suitable resting place, and if at some future date Iolene and I are able to take advantage of your kind offer of hospitality we shall enjoy that also.

We have been hoping that some freak of fate would have brought you to Jamaica before this, since as a result of delving into the mysteries of *Cercospora musae* there are so many points on which I should have wished to obtain your advice.

There is no doubt in my mind that we are now on the eve of completing the life history of *Cercospora musae*, since in the Frankfield area of Jamaica we have recently discovered perithecia, the ascospores of which have produced *Cercospora conidia* in culture. We are now impatiently awaiting the final proof which should be available within the next two weeks, since conidia from these ascospore cultures have been placed upon banana leaves and apparently are behaving like the normal *Cercospora conidia* taken from the leaf. We have already produced typical conidia bearing lesions from conidia produced in culture from other conidia, so that if we are able to produce lesions from the ascospore producing conidia the cycle should be pretty well complete.

So far the Frankfield area is the only one which has yielded

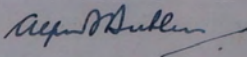
perithecia, and we are now investigating the Montego Bay area. It may be that this will complete our picture and give us more understanding of some of the hitherto unexplained seasonal spreads. Just as soon as I can accumulate sufficient material I will write you a more detailed description.

The Asco spores are two-celled, slightly tapered at each end, about one-third of the length of a typical conidia and a little fatter. The perithecium is about the same diameter as the length of a typical conidia, and the asci are a little more than half as long as a typical conidia. Perithecia appear to be produced on both sides of the leaf.

With kindest regards,

I am,

Yours sincerely,

A handwritten signature in dark ink, appearing to read "Alfred H. S. Buller". The signature is written in a cursive style and is underlined with a single horizontal stroke.

% LIMITED FRUIT CO.

BOG WALK. P.O.

NOVEMBER 24<sup>th</sup> 1940.

DEAR DR. POPE DOE,

MANY THANKS FOR YOUR NICE LETTER RECEIVED SOME LITTLE TIME AGO — PLEASE EXCUSE MY NOT REPLYING EARLIER — BUT YOU KNOW HOW TIME FLIES. I SEE BY YOUR LETTER YOU ARE STILL VERY MUCH ON THE MOVE, IT MUST BE VERY INTERESTING BEING IN YOUR POSITION VISITING ALL OF THE DIVISIONS, AND HAVING MANY PROBLEMS TO SOLVE — ESPECIALLY WHEN YOUR SOLUTIONS ARE PUT INTO EFFECT.

THINGS HERE IN JAMAICA HAVE BEEN RUNNING SMOOTHLY FOR QUITE SOME MONTHS, FRUIT IN THIS SECTION STEADILY INCREASED FROM JUNE UP TO THE FIRST WEEK OF NOVEMBER, AND NOW SHOWS A DECIDED FALLING OFF IN QUALITY AND QUANTITY. IF CONDITIONS WERE NORMAL, THERE WILL BE A REPETITION OF 3 OR 4 YEARS AGO — AN EARLY SPRING CROP STARTING FROM EARLY IN APRIL. UNFORTUNATELY THERE IS A FAIR AMOUNT OF TRUTH PUT UP IN CROUCHER'S AND PLATT'S ALIBIS, PROSPECTS DO NOT LOOK BRIGHT AS FAR AS SHIPMENTS. FOR SOME WEEKS NOW WE HAVE ONLY BEEN SHIPPING 92 62 42 — SIXES <sup>WHICH</sup> AMOUNT TO 23% OF THIS SECTION'S OUTPUT HAVE BEEN SHUT OUT AT STATIONS, BUT BOUGHT FROM GROWERS AT THE GOVERNMENT'S EXPENSE. IF I REMEMBER CORRECTLY WHEN THE BETS WERE BEING PLACED — MRS SHARPE TOOK NOTES OF POSSIBLE ALIBIS — NOT BEING ABLE TO SHIP THE FRUIT, WAS ONE I FEEL SURE. NEVERTHELESS WHEN WE MEET AGAIN WE CAN STRAIGHTEN THINGS OUT — PERSONALLY YOUR GUESS I CONSIDER WAS CORRECT, IF WE HAD BOTTOMS THE ISLAND SHIPMENTS

WOULD BE BETWEEN \$400,000 AND 9,000,000 (THIS IS MY ESTIMATE, I DO NOT KNOW WHAT THEY THINK IN KINGSTON)

IN REGARDS TO LEAF SPOT THINGS ARE STILL GOING ALONG. SO SO THE SAME LARGER GROWERS STILL SPRAYING AND KEEP — THE LITTLE FELLOWS SLIGHTLY INTERESTED, UNTIL THEY GET A PUMP, THEN MILLIONS OF EXCUSES WHY THEY DO NOT SPRAY OR KEEP ON A 3 WEEKS CYCLE. THERE ARE MIGHTY FEW FARMS (OUTSIDE OF OUR OWN) ON A 3 WEEKS CYCLE. THE SMALL GROWERS WILL HAVE TO GO OUT, BEFORE THEY WILL COME BACK SPRAY MINDED. I AM AFRAID THE PRESENT SYSTEM WILL HAVE TO BE CHANGED, BEFORE CERESOSPORA CAN BE TACKLED BY THE SMALL MAN IN REAL EARNEST — DEMONSTRATION PLOTS IN EVERY DISTRICT OF ANY IMPORTANCE TO BE RUN BY REAL BAHAMANS — THEN DISTRICTS LET OUT BY CONTRACT TO MOD GOVT. EMPLOYEES TO DO THE SPRAYING BY THE ACRE AND PAYMENT TO BE MADE BY FRUIT OR CASH. I AM AFRAID THE DAYS OF GENTLE PERSUASION ARE PAST

WELL DE POPEJOE, I AM AFRAID I WILL HAVE TO CLOSE THIS SERMON NOW. THE VIEWS I HAVE EXPRESSED ARE MY OWN AND I HOPE DO NOT CLASH WITH OTHERS.

I SPENT A DAY WITH BUTLER, HE TOLD ME HE HAD JUST HEARD FROM YOU — WELL WHEN I ARRIVED AT BOGWAIR YOUR LETTER WAS WAITING FOR ME SO NATURALLY I FELT GRAD.

BETH AND BOBBY ARE BOTH LOOKING THE PICTURE OF HEALTH AND WE SHALL NEVER FORGET MR BRADSHAW'S KIND CONSIDERATION IN MAKING IT POSSIBLE FOR US TO GET A BREAK IN LIVING IN THE HILLS HERE. ALTHOUGH I AM NEVER HOME BEFORE DARK FOR THE SIX DAYS OF THE WEEK, I DO NOT MIND IT FOR THE SAKE OF OTHERS, AS THE CLIMATE IS SO GOOD.

BETH JOINS ME IN WISHING HELEN AND YOURSELF EVERYTHING



OF THE VERY BEST, WE ARE LOOKING FORWARD WITH PLEASURE TO THE DAY WHEN YOU WILL BE COMING ON ONE OF YOUR VISITS.

BY THE WAY, THERE IS A VERY INTERESTING HOUSE AT CLEMENCY ON RAMBLE PROPERTY, IT WAS BUILT BY THE CUSTOS OF SEAM'S ABOUT 1897 - IT MUST HAVE COST A GOOD \$15,000 THEN - PRESENT DAY LABOUR COULD NOT DO SUCH FINE WORK. TO START WITH ALL THE BEDROOMS ARE ON GROUND LEVEL - LIVING ROOMS UPSTAIRS. ALL FLOORS ARE LIKE MOSAIC WORK DONE IN WOOD OF MANY DIFFERENT COLOURS. CEILING ARE ALSO DONE IN WOOD OF DIFFERENT COLOURS AND HAVE ALL SORTS OF DESIGNS, STARS, MALTESE CROSSES ETC., BATH IS MADE ENTIRELY OF TILES, IT IS QUITE AN ODD HOUSE WELL WORTH A VISIT - SOME FRIENDS OF OURS RENTED IT FOR THE SUMMER MONTHS - SO I SPENT SEVERAL SUNDAYS THERE.

THE ORCHID HAS JUST FINISHED BLOOMING IT WAS A PICTURE AND GREATLY ADMIRER - THE NAME POPENOE NATURALI WAS MENTIONED MANY TIMES.

FOR GOD TO MENTION THAT ON RAMBLE PROPERTY TEAM MACHINES IS STILL ~~BE~~ THERE, I HEARD THAT LIPTON'S GAVE THE OWNER BACKING BUT IT WAS NOT PROFITABLE.

Kindest regards to you both

From your sincere friend

J.B. CROUCHER HAS NOT COME ACROSS WITH A GOOD NEWSPAPER ARTICLE SINCE YOU LEFT - FARLESS R.F.W. - NEVION HAS JUST RETURNED FROM HAITI HE WAS THERE FOR SIX WEEKS TAKING UP HIS COLLECTOR WORK FOR STANARD. !!!

## UNITED FRUIT COMPANY, JAMAICA DIVISION

Supplement to Form 1187 - Bananas for Period Ended November 1940Farm Report including Cultivation Depreciation & Property Losses

| District      | Acres in Bearing | Mainten-<br>ance: | Harvest-<br>ing | Cult. Depron<br>&<br>Prop. Losses |         | Cost per St.<br>Mtnc. & Cult.<br>& Depron. & P. Losses |           | Cost per Acre<br>Cult.<br>Depron. & P. Losses |           |
|---------------|------------------|-------------------|-----------------|-----------------------------------|---------|--|-----------|---|-----------|
|               |                  |                   |                 | Counts                            |         | Harvstg.   | P. Losses | only  | P. Losses |
|               |                  |                   |                 | U.S. Currency                     |         | U. S. Currency   |           |   |           |
| St. Catherine | 3,345            | 319,195           | 28,063          | 121,993                           | 592,633 | .586   | .206      | 95.42   | 36.47     |
| St. Thomas    | 362              | 30,310            | 1,594           | 11,046                            | 41,355  | .772   | .267      | 83.73   | 30.51     |
| Total -       | 3,707            | 349,505           | 29,657          | 133,039                           | 633,988 | .598   | .210      | 94.28   | 35.89     |

Farm cost includes treating "Leaf Spot" and "Panama Disease" which work out at \$ .099 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popenoe

Kingston, Jamaica.  
December 7, 1940.

FARM REPORT FOR PERIOD ENDED NOVEMBER 1940

PRODUCT BANANAS

*Reference*

| FARMS                | ACREAGE     |            | EXPENDITURE                                     |            | PRODUCTION |        |               | COUNT RATIO | COST PER COUNT |            |            | COST PER ACRE MTC. ONLY |
|----------------------|-------------|------------|---|------------|------------|--------|---------------|-------------|----------------|------------|------------|-------------------------|
|                      | * IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts | Cts. PER ACRE |             | Farm Mtc.      | Harvesting | Farm Depr. |                         |
| <u>ST. CATHERINE</u> |             |            |   |            |            |        |               |             |                |            |            |                         |
| Watson Grove         | 225         | 225        | 19360   | 1399       | 42375      | 30338  | 134.8         | .716        | .638           | .046       | .346       | 86.04                   |
|                      | 193         | 193        | 19140   | 2314       | 79200      | 71161  | 368.7         | .898        | .855           | .033       | .152       | 93.99                   |
| Congreve Park        | 834         | 834        | 70779   | 6090       | 228598     | 159199 | 190.9         | .698        | .445           | .038       | .273       | 84.87                   |
|                      | 534         | 534        | 51239   | 8000       | 290616     | 232658 | 435.7         | .801        | .320           | .034       | .170       | 95.95                   |
| Twickenham Park      | 52          | 52         | 5913  | 790        | 19412      | 13630  | 262.1         | .702        | .434           | .058       | .521       | 118.71                  |
|                      | 8           | 8          | 2270  | 395        | 7844       | 6696   | 837.0         | .854        | .339           | .059       | .849       | 262.78                  |
| Bushy Park           | 265         | 265        | 29200   | 3906       | 55147      | 56027  | 126.0         | .653        | .783           | .108       | .768       | 106.48                  |
|                      | 130         | 130        | 15892   | 4259       | 76651      | 55321  | 425.6         | .723        | .227           | .077       | .650       | 122.25                  |
| Half-Way Tree        | 537         | 537        | 41213   | 4922       | 141878     | 103660 | 193.0         | .731        | .398           | .047       | .220       | 76.75                   |
|                      | 380         | 380        | 31317   | 6297       | 188394     | 164812 | 433.7         | .875        | .190           | .038       | .216       | 82.41                   |
| Bernard Lodge        | 213         | 213        | 21716   | 1675       | 55412      | 38894  | 187.3         | .720        | .544           | .048       | .636       | 101.95                  |
|                      | 135         | 135        | 15260   | 1836       | 59146      | 46556  | 347.1         | .792        | .326           | .039       | .479       | 113.04                  |
| Goshen               | 368         | 368        | 34069   | 2925       | 89779      | 68010  | 184.8         | .758        | .501           | .043       | .470       | 92.59                   |
|                      | 254         | 254        | 26683   | 3369       | 112371     | 102021 | 401.7         | .908        | .262           | .033       | .275       | 105.05                  |
| Phoenix Park         | 451         | 451        | 37756   | 3505       | 105817     | 76701  | 170.1         | .725        | .492           | .046       | .514       | 83.72                   |
|                      | 368         | 368        | 30848   | 5175       | 162125     | 139282 | 372.5         | .859        | .221           | .037       | .282       | 63.63                   |
| Laurencefield        | 400         | 400        | 35937   | 2851       | 89902      | 65174  | 162.9         | .725        | .567           | .044       | .550       | 92.34                   |
|                      | 265         | 265        | 31412   | 3084       | 99790      | 86090  | 324.9         | .863        | .365           | .036       | .372       | 118.54                  |
| Superintendence      |             |            | 17653   |            |            |        |               |             |                | .030       |            | 5.28                    |
|                      |             |            | 16756   |            |            |        |               |             |                | .019       |            | 7.39                    |
| Live Stock           |             |            | 5599  |            |            |        |               |             |                | .009       |            | 1.67                    |
|                      |             |            | 5053  |            |            |        |               |             |                | .006       |            | 2.23                    |
| Total Period         | 3345        | 3345       | 319195  | 28063      | 328319     | 592633 | 177.2         | .715        | .539           | .047       | .413       | 95.42                   |
|                      | 2267        | 2267       | 244870  | 34729      | 1076137    | 904907 | 399.2         | .841        | .271           | .038       | .274       | 109.01                  |
| Total Month          | 3542        | 3542       | 40298   | 3296       | 81216      | 72736  | 20.5          | .895        | .554           | .045       | .364       | 11.38                   |
|                      | 2664        | 2664       | 17190   | 988        | 23843      | 19164  | 6.8           | .762        | .948           | .054       | .616       | 6.45                    |
|                      |             |            |   |            |            |        |               |             |                |            |            |                         |
|                      |             |            |   |            |            |        |               |             |                |            |            |                         |
|                      |             |            |   |            |            |        |               |             |                |            |            |                         |
| <u>ST. THOMAS</u>    |             |            |   |            |            |        |               |             |                |            |            |                         |
| Springfield          | 75          | 75         | 5891  | 339        | 16196      | 10072  | 134.3         | .622        | .585           | .034       | .271       | 78.55                   |
|                      | 42          | 42         | 4144  | 477        | 21652      | 14994  | 357.0         | .692        | .276           | .032       | .108       | 98.65                   |
| Albion               | 287         | 287        | 23762   | 1255       | 43541      | 31283  | 109.0         | .718        | .760           | .040       | .757       | 82.79                   |
|                      | 443         | 443        | 32604   | 2715       | 112133     | 79886  | 180.2         | .712        | .408           | .034       | .550       | 73.00                   |
| Superintendence      |             |            | 657   |            |            |        |               |             |                | .016       |            | 1.81                    |
|                      |             |            | 801   |            |            |        |               |             |                | .006       |            | 1.55                    |
| Live Stock           |             |            | -   |            |            |        |               |             |                |            |            |                         |
|                      |             |            | 99  |            |            |        |               |             |                | .001       |            | .20                     |
| Total Period         | 362         | 362        | 30310   | 1594       | 59737      | 41355  | 114.2         | .692        | .732           | .039       | .859       | 83.73                   |
|                      | 485         | 485        | 37648   | 3193       | 133985     | 94880  | 195.6         | .709        | .397           | .034       | .212       | 77.52                   |
| Total Month          | 301         | 301        | 3244  | 221        | 7154       | 6204   | 20.6          | .867        | .523           | .036       | .483       | 10.78                   |
|                      | 351         | 351        | 2779  | 44         | 1176       | 1001   | 2.9           | .851        | .777           | .042       | .923       | 7.92                    |

December 6, 1940  
DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 §Farm Depreciation (Include Irrigation and Disease Control)

UNIONED FRUIT

COMPANY, JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED NOVEMBER 1940PRODUCT BAKAYAS

| FARMS   | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |        |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |          |
|---|-----------|------------|---|------------|------------|--------|---------------|-------------|----------------|------------|-------------|--------------------------|----------|
|   | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts | Cts. PER ACRE |             | Farm Mtce.     | Harvesting | Farm Deprn. |                          |          |
| <b>RECAPITULATION</b>                           |           |            |   |            |            |        |               |             |                |            |             |                          |          |
| <b>PERIOD - 1940, 48 Weeks; 1939 - 47 Weeks</b> |           |            |   |            |            |        |               |             |                |            |             |                          |          |
| St. Catherine                                   | 3345      | 3345       | 319195  | 28063      | 828319     | 592633 | 177.2         | .715        | .539           | .047       | .413        | 95.42                    |          |
|   | 2267      | 2267       | 244870  | 34789      | 1076137    | 904907 | 399.2         | .841        | .271           | .038       | .274        | 108.02                   |          |
| St. Thomas                                      | 362       | 362        | 30310   | 1594       | 59737      | 41355  | 114.2         | .632        | .733           | .039       | .639        | 83.73                    |          |
|   | 485       | 485        | 37648   | 3165       | 133785     | 94890  | 195.6         | .709        | .397           | .034       | .350        | 77.63                    |          |
| Total Period                                    | 3707      | 3707       | 349505  | 29857      | 898056     | 633988 | 171.0         | .714        | .551           | .047       | .428        | 94.29                    |          |
|   | 2752      | 2752       | 282518  | 37922      | 1209922    | 999767 | 363.3         | .826        | .283           | .038       | .278        | 102.65                   |          |
| <b>MONTH - 1940, 5 Weeks; 1939 - 4 Weeks</b>    |           |            |   |            |            |        |               |             |                |            |             |                          |          |
| St. Catherine                                   | 3542      | 3542       | 40298   | 3296       | 81216      | 72736  | 20.5          | .896        | .254           | .045       | .394        | 11.78                    |          |
|   | 2564      | 2564       | 17190   | 988        | 23643      | 18164  | 3.8           | .762        | .946           | .054       | 1.618       | 6.45                     |          |
| St. Thomas                                      | 301       | 301        | 3244  | 221        | 7154       | 6204   | 20.6          | .867        | .523           | .036       | .463        | 10.78                    |          |
|   | 351       | 351        | 2779  | 44         | 1176       | 1001   | 2.9           | .851        | 2.777          | .044       | 2.938       | 7.02                     |          |
| Total Month                                     | 3843      | 3843       | 43542   | 3517       | 88370      | 78940  | 20.5          | .893        | .552           | .045       | .390        | 11.33                    |          |
|   | 3015      | 3015       | 19959   | 1032       | 25019      | 19165  | 6.4           | .766        | 1.042          | .034       | 1.657       | 6.62                     |          |
| Rate of Exchange - 1940 Month                   |           |            |   |            |            |        |               |             | \$4.0300       |            |             |                          |          |
|   |           |            |   |            |            |        |               |             | 1940 Period    |            |             |                          | \$3.8553 |
|   |           |            |   |            |            |        |               |             | 1939 Period    |            |             |                          | \$4.508  |

December 6, 1940

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ○Farm Depreciation (include Irrigation and Disease Control)



1941 CROP

CIVILIAN PROJECT

COMPANY,

JAMAICA

DIVISION

PERIOD COMMENCED: 4.29.40

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF NOVEMBER, 1940

| NO. OF WEEKS<br>FARM | SUPERINTENDENCE AND CULTIVATION |                  |                 |                  |              |                       | HARVESTING       |             |                 |              |                       |                  | TOTAL COST      |   |                 |           |
|----------------------|---------------------------------|------------------|-----------------|------------------|--------------|-----------------------|------------------|-------------|-----------------|--------------|-----------------------|------------------|-----------------|---|-----------------|-----------|
|                      | THIS YEAR                       |                  |                 | LAST YEAR        |              |                       | THIS YEAR        |             |                 | LAST YEAR    |                       |                  | THIS YEAR       | COST PER TON                            | LAST YEAR       |           |
| Acres<br>Mature      | EXPENDITURE                     | Cost per<br>Acre | Acres<br>Mature | Cost per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | EXPENDITURE | Cost per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | Cost per<br>Ton | Farm Expenditure<br>Excludes Irrigation | Tls. per<br>Tn. | Last Year |
| BERNARD LODGE - 21   |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |   |                 |           |
| CONQUERO Pk.         | 10                              | 287.04           | 28.70           |                  |              |                       | 13.28            | 492.92      |                 |              |                       |                  |                 | 256.32                                  |                 |           |
| Crystal Park         | 54                              | 5,803.98         | 37.28           |                  |              |                       | 492.92           | 276.93      |                 |              |                       |                  |                 | 3,998.97                                |                 |           |
| Crystal Park         | 97                              | 4,968.04         | 51.05           |                  |              |                       | 6.77             | 68.69       |                 |              |                       |                  |                 | 84.63                                   |                 |           |
| Coalton              | 7                               | 803.85           | 89.12           |                  |              |                       | 68.69            | 68.69       |                 |              |                       |                  |                 | 957.56                                  |                 |           |
| Specottix Pk.        | 33                              | 897.77           | 27.21           |                  |              |                       |                  | 3,801.84    |                 |              |                       |                  |                 | 40,210.79                               |                 |           |
| Marion Pen           | 869                             | 26,809.45        | 48.96           |                  |              |                       |                  | 2,808.80    |                 |              |                       |                  |                 | 12,538.24                               |                 |           |
| Wardor Pk.           | 413                             | 10,135.44        | 24.54           |                  |              |                       |                  | 2,068.89    |                 |              |                       |                  |                 | 912.95                                  |                 |           |
| Supper.              |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 | 66,413.67                               |                 |           |
| Live Stock           |                                 | 912.25           |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 | 6,238.06                                |                 |           |
| Total Period         | 1593                            | 59,753.47        | 39.22           |                  |              |                       |                  | 6,660.21    |                 |              |                       |                  |                 |   |                 |           |
| per Month            | 1328                            | 5,648.84         | 3.74            |                  |              |                       |                  | 653.78      |                 |              |                       |                  |                 |   |                 |           |

Date of Exchange - Month: 14.03.40  
 Per 04: 22.7430

Printed at 6 1940

(Date)

FARM REPORT FOR PERIOD ENDED DECEMBER 1940

PRODUCT RAVENAS

| FARMS                | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |         |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCY. ONLY |
|----------------------|-----------|------------|---|------------|------------|---------|---------------|-------------|----------------|------------|-------------|--------------------------|
|                      | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Sts. PER ACRE |             | Farm Mctc.     | Harvesting | Farm Deprn. |                          |
| <u>ST. CATHERINE</u> |           |            |   |            |            |         |               |             |                |            |             |                          |
| Watson Grove         | 227       | 227        | 21,359  | 1,712      | 48,664     | 88,322  | 160.0         | 748         | 598            | 047        | 328         | 24.08                    |
|                      | 191       | 191        | 19,822  | 2,240      | 79,407     | 71,820  | 275.4         | 888         | 392            | 037        | 153         | 16.22                    |
| Congrave Park        | 837       | 837        | 78,167  | 6,416      | 337,768    | 169,187 | 199.9         | 708         | 468            | 036        | 260         | 32.30                    |
|                      | 850       | 850        | 57,496  | 8,273      | 327,116    | 329,327 | 231.5         | 799         | 322            | 035        | 122         | 104.51                   |
| Triokenham Park      | 53        | 53         | 6,441   | 817        | 19,953     | 14,130  | 266.6         | 708         | 458            | 058        | 580         | 141.68                   |
|                      | 5         | 9          | 3,687   | 433        | 7,244      | 8,783   | 252.1         | 858         | 394            | 054        | 387         | 96                       |
| Buchy Park           | 263       | 263        | 20,279  | 4,027      | 59,034     | 39,584  | 150.5         | 671         | 765            | 104        | 726         | 115.13                   |
|                      | 144       | 144        | 19,324  | 4,559      | 73,407     | 57,132  | 336.9         | 719         | 542            | 085        | 973         | 172.27                   |
| Half Way Tree        | 541       | 541        | 46,582  | 5,396      | 149,448    | 110,797 | 204.8         | 741         | 411            | 049        | 332         | 34.26                    |
|                      | 281       | 281        | 34,274  | 6,231      | 122,156    | 165,853 | 234.3         | 875         | 328            | 029        | 345         | 93                       |
| Barnard Lodge        | 215       | 215        | 23,584  | 1,729      | 57,601     | 41,865  | 194.7         | 727         | 563            | 042        | 426         | 109.89                   |
|                      | 132       | 132        | 19,010  | 1,659      | 39,851     | 29,400  | 246.0         | 738         | 569            | 032        | 272         | 112.13                   |
| Goshan               | 369       | 369        | 37,666  | 3,209      | 95,865     | 73,613  | 199.5         | 768         | 513            | 044        | 485         | 108.08                   |
|                      | 356       | 356        | 29,326  | 2,845      | 112,851    | 103,169 | 283.0         | 306         | 384            | 037        | 303         | 116.88                   |
| Phoenix Park         | 454       | 454        | 41,380  | 4,004      | 114,722    | 84,722  | 185.7         | 735         | 491            | 047        | 520         | 91.12                    |
|                      | 287       | 287        | 34,111  | 5,221      | 150,328    | 139,679 | 290.6         | 859         | 34             | 027        | 310         | 39.21                    |
| Lawrence Field       | 403       | 403        | 40,719  | 3,055      | 94,285     | 69,189  | 171.7         | 738         | 589            | 044        | 677         | 101.08                   |
|                      | 264       | 264        | 34,281  | 3,148      | 100,574    | 68,655  | 228.2         | 862         | 257            | 038        | 412         | 120                      |
| Superintendence      |           |            | 19,894  |            |            |         |               |             |                | 031        |             | 5.86                     |
|                      |           |            | 19,138  |            |            |         |               |             |                | 031        |             | 6                        |
| Live Stock           |           |            | 5,765   |            |            |         |               |             |                | 005        |             | 1.71                     |
|                      |           |            | 5,290   |            |            |         |               |             |                | 005        |             | 1.62                     |
| Total Period         | 3,362     | 3,362      | 350,626   | 30,485     | 877,510    | 638,998 | 189.5         | 728         | 560            | 048        | 428         | 104.25                   |
|                      | 2,299     | 2,299      | 273,225   | 23,713     | 1082,260   | 918,275 | 298.0         | 840         | 282            | 039        | 314         | 113.1                    |
| Total Month          | 3,548     | 3,548      | 31,441  | 2,432      | 49,191     | 44,555  | 12.6          | 902         | 709            | 055        | 629         | 8.88                     |
|                      | 2,585     | 2,585      | 23,935  | 1,984      | 13,743     | 10,085  | 3.2           | 73          | 280            | 082        | 223         | 10.62                    |
| <u>ST. THOMAS</u>    |           |            |   |            |            |         |               |             |                |            |             |                          |
| Springfield          | 77        | 77         | 6,627   | 389        | 18,006     | 11,449  | 148.2         | 632         | 585            | 034        | 270         | 85.27                    |
|                      | 43        | 43         | 4,507   | 457        | 21,627     | 14,322  | 246.9         | 603         | 757            | 037        | 132         | 107.2                    |
| Albion               | 380       | 380        | 25,632  | 1,436      | 47,852     | 34,808  | 194.3         | 727         | 726            | 041        | 753         | 91.64                    |
|                      | 421       | 421        | 28,015  | 2,762      | 112,530    | 80,320  | 186.1         | 718         | 436            | 028        | 321         | 81.22                    |
| Superintendence      |           |            | 757   |            |            |         |               |             |                | 016        |             | 2.12                     |
|                      |           |            | 807   |            |            |         |               |             |                | 010        |             | 1.33                     |
| Live Stock           |           |            |   |            |            |         |               |             |                |            |             |                          |
|                      |           |            | 89  |            |            |         |               |             |                | 001        |             | 1                        |
| Total Period         | 357       | 357        | 33,086  | 1,615      | 65,858     | 48,257  | 129.6         | 702         | 715            | 049        | 633         | 82.04                    |
|                      | 474       | 474        | 40,223  | 3,286      | 124,127    | 95,252  | 206.2         | 710         | 427            | 034        | 349         | 35.70                    |
| Total Month          | 301       | 301        | 2,725   | 221        | 6,121      | 4,902   | 16.3          | 801         | 566            | 045        | 586         | 9.22                     |
|                      | 231       | 231        | 2,225   | 54         | 303        | 212     | 1.0           | 263         | 234            | 039        | 232         | 6.48                     |

January 8, 1941  
DATE

\*Average under irrigation included in "In Bearing" figures.  
 (Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 Δ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (Include Irrigation and Disease Control)

HONEYWELL UNITED FRUIT

COMPANY, MARMA, VANUATA

DIVISION

FARM REPORT FOR PERIOD ENDED DECEMBER 1940 1940 PRODUCT BANANAS

| FARMS  | ACREAGE   |            | Δ EXPENDITURE                                   |            | PRODUCTION |          |              | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|--|-----------|------------|---|------------|------------|----------|--------------|-------------|----------------|------------|-------------|--------------------------|
|  | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts   | %s. PER ACRE |             | Farm Mtce.     | Harvesting | Farm Deprn. |                          |
| <u>RECAPITULATION</u>                          |           |            |   |            |            |          |              |             |                |            |             |                          |
| <u>Period - 1940 - 52 Weeks; 1939 52 Weeks</u> |           |            |   |            |            |          |              |             |                |            |             |                          |
| St. Catherine                                  | 3,362     | 3,362      | 350,536   | 30,485     | 877,810    | 636,988  | 189.5        | .725        | .550           | .048       | .498        | 104.28                   |
|  | 2,299     | 2,299      | 273,858   | 38,718     | 1089,880   | 314,272  | 299.0        | .540        | .399           | .029       | .314        | 115.12                   |
| St. Thomas                                     | 357       | 357        | 33,086  | 1,815      | 85,858     | 46,257   | 129.6        | .702        | .215           | .039       | .623        | 92.68                    |
|  | 474       | 474        | 40,572  | 2,155      | 124,157    | 25,249   | 200.9        | .710        | .457           | .074       | .343        | 125.90                   |
| Total Period                                   | 3,719     | 3,719      | 383,722   | 32,300     | 943,349    | 683,845  | 188.7        | .724        | .562           | .047       | .442        | 103.18                   |
|  | 2,773     | 2,773      | 314,438   | 38,863     | 1294,057   | 1010,302 | 264.3        | .685        | .311           | .028       | .317        | 113.41                   |
| <u>Month - 1940 5 Weeks; 1939 5 Weeks</u>      |           |            |   |            |            |          |              |             |                |            |             |                          |
| St. Catherine                                  | 3,542     | 3,542      | 31,441  | 2,422      | 49,191     | 44,355   | 12.5         | .202        | .709           | .055       | .629        | 8.88                     |
|  | 2,665     | 2,665      | 26,395  | 684        | 13,743     | 10,025   | 3.8          | .732        | 2.860          | .028       | 2.893       | 10.68                    |
| St. Thomas                                     | 301       | 301        | 2,776   | 221        | 6,121      | 4,902    | 16.3         | .601        | .566           | .045       | .586        | 9.22                     |
|  | 351       | 351        | 2,275   | 64         | 402        | 343      | 1.0          | .868        | 8.524          | .126       | 10.335      | 8.49                     |
| Total Month                                    | 3,843     | 3,843      | 34,217  | 2,643      | 55,312     | 49,257   | 12.8         | .691        | .695           | .054       | .625        | 8.90                     |
|  | 2,016     | 2,016      | 21,270  | 1,048      | 14,145     | 10,412   | 3.5          | .736        | 1.070          | .101       | 1.115       | 10.60                    |
| Rate of Exchange - 1940 Month                  |           |            |   |            |            |          |              | \$4.0300    |                |            |             |                          |
| 1940 Period                                    |           |            |   |            |            |          |              | \$3.8684    |                |            |             |                          |
| 1939 Period                                    |           |            |   |            |            |          |              | \$4.455     |                |            |             |                          |

January 5, 1941

DATE

\*Average under Irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 Δ Report even dollars only eliminating cents.  
 ⊙ Farm Depreciation (Include Irrigation and Disease Control)

1941 CROP

UNITED VEGET

COMPANY,

TANAYVA

DIVISION

PERIOD COMMENCED: 4-29-40

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF DECEMBER, 1941

| NO. OF WEEKS<br>FARM                                    | SUPERINTENDENCE AND CULTIVATION |                  |                 |                  | HARVESTING   |                       |                  |             | TOTAL COST      |              |                       |                  |                 |  |                      |                      |
|---|---------------------------------|------------------|-----------------|------------------|--------------|-----------------------|------------------|-------------|-----------------|--------------|-----------------------|------------------|-----------------|--|----------------------|----------------------|
|   | THIS YEAR                       |                  | LAST YEAR       |                  | THIS YEAR    |                       | LAST YEAR        |             | THIS YEAR       |              | LAST YEAR             |                  |                 |  |                      |                      |
| Acres<br>Mature   | EXPENDITURE                     | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | Coal per<br>Ton | Farm Reproduction<br>Excludes Depreciation | This Year<br>Per Ton | Last Year<br>Per Ton |
| <b>BERNARD LAYNE - ST. CATERINE DISTRICT - 36 Weeks</b> |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
| 10  | 974.87                          | 27.49            |                 |                  | 14.95        | 596.88                |                  | 299.82      |                 |              |                       |                  |                 | 299.82                                     |                      |                      |
| 34  | 2,636.95                        | 60.82            |                 |                  | 509.28       | 445.26                |                  | 326.51      |                 |              |                       |                  |                 | 326.51                                     |                      |                      |
| 97  | 5,425.07                        | 55.95            |                 |                  | 839          | 8.59                  |                  | 5,898.43    |                 |              |                       |                  |                 | 5,898.43                                   |                      |                      |
| 7   | 852.32                          | 21.88            |                 |                  | 91.87        |                       |                  | 251.21      |                 |              |                       |                  |                 | 251.21                                     |                      |                      |
| 35  | 1,016.39                        | 30.82            |                 |                  | 1,108.85     |                       |                  | 1,108.85    |                 |              |                       |                  |                 | 1,108.85                                   |                      |                      |
| 868   | 39,582.53                       | 45.30            |                 |                  | 43,512.89    |                       |                  | 43,512.89   |                 |              |                       |                  |                 | 43,512.89                                  |                      |                      |
| 418   | 11,219.02                       | 27.16            |                 |                  | 13,848.06    |                       |                  | 13,848.06   |                 |              |                       |                  |                 | 13,848.06                                  |                      |                      |
| <b>Superintendence</b>                                  |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
|   | 964.53                          |                  |                 |                  |              |                       |                  | 284.53      |                 |              |                       |                  |                 | 284.53                                     |                      |                      |
| <b>Live Stock</b>                                       |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
|   | 1,828.66                        | 32.74            |                 |                  | 7,838.59     |                       |                  | 72,714.73   |                 |              |                       |                  |                 | 72,714.73                                  |                      |                      |
| <b>Total Month</b>                                      |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
| 1,803   | 5,094.71                        | 3.35             |                 |                  | 1,208.95     |                       |                  | 5,901.93    |                 |              |                       |                  |                 | 5,901.93                                   |                      |                      |
| <b>Date of Exchange - North Period</b>                  |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
| <b>\$4,0300</b>   |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |
| <b>\$3,7665</b>   |                                 |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |                 |  |                      |                      |

January 9, 1941

(Day)

*Popenoe*  
Form 723  
3-17-26

UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1187 - BANANAS - FOR PERIOD ENDED DECEMBER 1940

FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| District   | Acres<br>in<br>Bearing | Mainten-<br>ance | Har-<br>vesting<br>U. S. Currency | Cultv. Deprn.<br>and<br>Prop. Losses<br>U. S. Currency | Counts  | Cost per count                  |  | Cost per acre                        |                                      |
|------------|------------------------|------------------|-----------------------------------|--|---------|---------------------------------|--|--------------------------------------|--------------------------------------|
|            |                        |                  |                                   |  |         | Mtce.<br>and<br>Har-<br>vesting | Cult.<br>Deprn.<br>& Prop. Mtce.<br>Losses<br>only<br>U. S. Currency | Cult.<br>Deprn.<br>& Prop.<br>Losses | Cult.<br>Deprn.<br>& Prop.<br>Losses |
| St. Cath.  | 3,362                  | 350,636          | 30,485                            | 135,934  | 626,988 | .598                            | .218   | 104.29                               | 40.43                                |
| St. Thomas | 357                    | 33,086           | 1,815                             | 12,282   | 46,857  | .754                            | .266   | 92.68                                | 34.40                                |
| TOTAL      | 3,719                  | 383,722          | 32,300                            | 148,216  | 683,243 | .609                            | .217   | 103.18                               | 39.85                                |

Farm cost includes treating "Leaf Spot" and  
"Panama Disease" which work out @ \$.100 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popenoe

Kingston, JAMAICA  
January 8, 1941

Boston, Massachusetts  
January 30, 1941

Via Air Mail

Dr. V. C. Dunlap  
Apartado 26  
Santiago  
Dominican Republic

Dear Dr. Dunlap:

I attach hereto copy of Mr. Bradshaw's letter to me dated January 25th, and my reply of today, regarding the possible adoption of Perenox as a means of controlling Sigatoka on 50% of cultivations in Jamaica.

I should like to have your very specific recommendations on this. In order to refresh your memory, in case you do not have your notes with you, I quote from your recent report on fungicidal sprays tested in Tela since 1936.

|                              | <u>Standard Perenox</u>   | <u>Perenox Bentonite</u>                         |
|------------------------------|---|--|
| Metallic Copper              | 50%   | 40%  |
| Proportions used             | 2.25 lbs./100 gals.   | 2.8 lbs./100 gals.                               |
| Spreaders                    | Goulac  | Bentonite  |
| Material cost per cycle acre | \$1.06  | \$1.17   |
| Trial period                 | 1 year  | 10 months  |
| Cycle                        | 21 days   | 21 days  |
| Spreading quality            | Poor  | Poor   |
| Sticking qualities           | Fair  | Good   |
| Advantages                   | Easy to mix. Stays well in suspension. Not too expensive.                                     | Ditto  |
| Disadvantages                | Difficulty in supervision because of dark brownish residue on leaves.                         | Ditto  |
| Control                      | Fair to good  | Fair   |
| Comments                     | Throughout 1939 gave fair to good control but was discontinued in favor of Perenox Bentonite. | No improvement in control over Standard Perenox. |

Yours very truly,

*A. A. Bellamy*

Copy to: Mr. H. Rowe  
Mr. W. E. Turnbull  
Mr. T. Bradshaw  
Dr. Wilson Popence

January 30, 1941

Mr. T. Bradshaw, Manager  
United Fruit Company  
Kingston, Jamaica

Dear Mr. Bradshaw:

I refer to your letter of the 25th instant regarding the use of Perenox for control of Sigatoka Disease and also regarding disposal of about half of your stock of Copper Sulphate in the event Perenox is adopted as standard treatment on at least half of your cultivations.

Before making any decision regarding adoption of Perenox I would like to have Dr. Dunlap's reaction and am sending to him at Santo Domingo copy of your letter and copy of this reply. If Dr. Dunlap decides in favor of Perenox, would it not be possible for you to dispose of your Copper Sulphate stock in Jamaica, possibly to the Government and for Sterling. The expenses in connection with transfer to another division would be considerable, and there is always the possibility of loss due to breakage of bags, etc. I believe you can let the Government have the stock at a price below that which they would have to pay on the open market. If you have any surplus stocks of lime, cannot these be handled in the same manner.

You state that the use of Perenox will enable you to save 19¢ per cycle acre in the cost of spray materials. At the present time your spray materials cost 60¢ per acre and you receive credit from the Government of an amount equal to 42¢ per acre, leaving a net cost of 18¢. Are we to understand that the entire cost of Perenox would be borne by the Government? It is only by the Government's doing so that I can visualize your net cost of 18¢ being wiped out.

In Honduras, where we used Perenox for one year, the Standard Perenox (50% metallic copper), on basis of 2.25 pounds to 100 gallons of water, gave us a

Mr. T. Bradshaw

- 2 -

January 30, 1941

material cost of \$1.06 per application acre. Perenox Bentonite (40% metallic copper), with strength of 2.8 pounds per 100 gallons, gave us a material cost of \$1.17 per application acre. I shall be glad to hear further from you regarding this point.

Yours very truly,

*A. A. Pollard*

Copy to: Mr. H. Rowe  
Mr. W. E. Turnbull  
Dr. Wilson Popenoe ✓  
Dr. V. C. Dunlap



# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

VIA AIR MAIL

JAMAICA DIVISION  
KINGSTON, JAMAICA

January 25th 1941

Mr. A.A. Pollan,  
Executive Vice-President,  
United Fruit Company,  
1 Federal Street,  
Boston, Mass.

Dear Mr. Pollan,

As previously advised we have been giving Perenox a thorough tryout on our Bernard Lodge banana cultivations - 252 acres.

The results of this trial with Perenox and of our other experiments convince us that this material will give us just as good control of Leaf Spot as the Bordeaux Mixture, and I would like to have your authority to substitute Perenox for Bordeaux Mixture on about half of our total banana cultivations. Both Mr. Shaw and Mr. Butler recommend we do this.

The reasons for this recommendation are as follows:-

1. Perenox gives us a saving at present prices of 19¢ per cycle acre. In addition to this economy there will be much less wear and tear on our machines and equipment.
2. Perenox is much easier to handle, which will enable quicker operation and less labour in filling our spray tanks.

In addition to the above there is also the fact that we will be using a British product in a British colony which is always desirable. This consideration, however, has not had any influence with us in making this recommendation.

I understand that Perenox has not given very good results in Honduras, but conditions here are very different and we are all perfectly satisfied that it will give us complete control.

We have on hand approximately two years' supply of copper sulphate - 503 tons - but it occurs to me that you may be glad to utilise about half of this supply in some other Division; if not, then we cannot of course consider the substitution of Perenox for Bordeaux Mixture. Please advise as soon as possible.

Yours very truly

*T. Bradshaw*  
Dictated

Copy to Mr. W.E. Turnbull  
Dr. V.C. Dunlap  
Dr. Wilson Popence ✓

## UNITED FRUIT COMPANY, JANUARY DIVISION

## FARM REPORT FOR PERIOD ENDED JANUARY 1941 PRODUCT

| FARMS                | ACREAGE   |            | Δ EXPENDITURE<br>Farm Maintenance<br>and Disease and<br>Insect Control | HARVESTING | PRODUCTION |        |               | COST PER COUNT |            |            | COST PER<br>ACRE<br>MTC. ONLY |               |
|----------------------|-----------|------------|--|------------|------------|--------|---------------|----------------|------------|------------|-------------------------------|---------------|
|                      | IRRIGATED | IN BEARING |  |            | Stems      | Counts | CTRS PER ACRE | COUNT RATIO    | Farm Mctc. | Harvesting |                               | ○ Farm Deprn. |
| <b>ST. CATHERINE</b> |           |            |  |            |            |        |               |                |            |            |                               |               |
| Watson Grove         | 299       | 299        | 2,156  | 217        | 7,479      | 6,599  | 22.1          | .832           | .324       | .039       | .194                          | 7.24          |
|                      | 173       | 173        | 1,428  | 38         |            |        |               |                |            |            |                               | 8.21          |
| Longacre Park        | 665       | 665        | 6,459  | 504        | 16,556     | 13,726 | 15.9          | .829           | .471       | .037       | .241                          | 7.97          |
|                      | 732       | 732        | 5,196  | 192        | 2,266      | 1,801  | 3.5           | .796           | 2,910      | .10        |                               | 7.00          |
| Wickham Park         | 63        | 63         | 708  | 33         | 395        | 378    | 6.0           | .957           | 1,875      | .140       | .016                          | 11.22         |
|                      | 18        | 18         | 501  | 47         | 6          | 6      | 3.3           | .650           | 2,172      | 1.72       |                               | 10.91         |
| Bunny Park           | 257       | 257        | 1,807  | 263        | 3,356      | 2,759  | 11.6          | .821           | .659       | .031       | .624                          | 7.52          |
|                      | 127       | 127        | 1,304  | 95         | 302        | 197    | 7.7           | .632           | 1,000      | .08        |                               | 5.00          |
| Hart-Way Tree        | 359       | 359        | 3,872  | 415        | 12,499     | 11,211 | 17.7          | .935           | .343       | .031       | .227                          | 6.00          |
|                      | 395       | 395        | 7,650  | 150        | 895        | 825    | 6.6           | .935           | 10,997     | .12        |                               | 7.72          |
| Wernert Lodge        | 221       | 221        | 1,760  | 174        | 2,503      | 1,990  | 9.0           | .660           | .689       | .061       | .059                          | 7.22          |
|                      | 152       | 152        | 1,314  | 17         |            |        |               |                |            |            |                               | 5.50          |
| Goshen               | 360       | 360        | 3,416  | 442        | 11,839     | 10,488 | 27.6          | .885           | .355       | .045       | .231                          | 6.99          |
|                      | 275       | 275        | 175  | 50         | 470        | 411    | 1.5           | .674           | 6,066      | .11        |                               | 7.00          |
| Phoenix Park         | 482       | 482        | 3,629  | 431        | 9,238      | 7,834  | 15.8          | .824           | .433       | .037       | .443                          | 7.92          |
|                      | 359       | 359        | 2,845  | 50         | 88         | 93     | 2.8           | .630           | 58,902     | .12        |                               | 7.22          |
| Lawrencefield        | 426       | 426        | 3,694  | 220        | 5,502      | 4,600  | 10.8          | .636           | .603       | .061       | .604                          | 8.27          |
|                      | 260       | 260        | 2,239  | 27         | 49         | 25     | 1.8           | .600           | 59,572     | 1.09       |                               | 8.00          |
| Superintendent's     |           |            | 1,427  |            |            |        |               |                |            | .024       |                               | .40           |
|                      |           |            | 1,712  |            |            |        |               |                |            | .020       |                               | .20           |
| Live Stock           |           |            | 241  |            |            |        |               |                |            | .004       |                               | .07           |
|                      |           |            | 63   |            |            |        |               |                |            | .003       |                               | .10           |
| Total Month & Period | 3,612     | 3,612      | 29,156   | 2,786      | 69,127     | 59,373 | 16.4          | .869           | .491       | .047       | .344                          | 6.07          |
|                      | 2,628     | 2,628      | 22,529   | 671        | 5,445      | 2,766  | 1.0           | .303           | 6,149      | .43        |                               | 3.24          |
|                      |           |            |  |            |            |        |               |                |            |            |                               |               |
|                      |           |            |  |            |            |        |               |                |            |            |                               |               |
|                      |           |            |  |            |            |        |               |                |            |            |                               |               |
|                      |           |            |  |            |            |        |               |                |            |            |                               |               |
| <b>ST. THOMAS</b>    |           |            |  |            |            |        |               |                |            |            |                               |               |
| Springfield          | 89        | 89         | 583  | 36         | 1,640      | 1,162  | 13.1          | .709           | .501       | .038       | .175                          | 6.33          |
|                      | 42        | 42         | 343  | 1          | 5          | 5      | 1.2           | .832           | 62,366     | .02        |                               | 7.10          |
| Albion               | 241       | 241        | 2,070  | 128        | 3,416      | 2,768  | 11.5          | .810           | .746       | .040       | .562                          | 6.56          |
|                      | 303       | 303        | 2,101  | 21         | 412        | 374    | 1.2           | .906           | 5,617      | .02        |                               | 7.20          |
| Superintendence      |           |            | 66   |            |            |        |               |                |            | .017       |                               | .20           |
|                      |           |            | 59   |            |            |        |               |                |            | .143       |                               | .10           |
| Total Month & Period | 320       | 320        | 2,712  | 164        | 5,066      | 3,931  | 11.9          | .777           | .622       | .041       | .440                          | 6.22          |
|                      | 361       | 361        | 2,497  | 22         | 419        | 372    | 1.1           | .305           | 6,729      | .06        |                               | 3.21          |

February 5, 1941.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ○Farm Depreciation (include Irrigation and Disease Control)

UNITED FRUIT

COMPANY,

FARMINGTON

DIVISION

FARM REPORT FOR PERIOD ENDED

JANUARY 1941

PRODUCT PEACHES

| FARMS                            | ACREAGE     |            | EXPENDITURE                                     |            | PRODUCTION |        |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|----------------------------------|-------------|------------|---|------------|------------|--------|---------------|-------------|----------------|------------|-------------|--------------------------|
|                                  | * IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts | Cts. PER ACRE |             | Farm Mtce.     | Harvesting | Farm Deprn. |                          |
| <u>RECAPITULATION</u>            |             |            |   |            |            |        |               |             |                |            |             |                          |
| Month & Period - 4 Weeks         |             |            |   |            |            |        |               |             |                |            |             |                          |
| St. Catherine                    | 3,618       | 3,618      | 39,156  | 2,786      | 69,127     | 59,373 | 16.4          | .658        | .491           | .047       | .544        | 8.07                     |
|                                  | 3,638       | 3,638      | 22,538  | 671        | 3,445      | 2,766  | 1.0           | .803        | .148           | .242       |             | 8.34                     |
| St. Thomas                       | 330         | 330        | 2,712   | 164        | 5,056      | 3,931  | 11.9          | .777        | .592           | .041       | .448        | 8.24                     |
|                                  | 351         | 351        | 2,497   | 32         | 419        | 329    | 1.1           | .807        | .589           | .084       |             | 7.11                     |
| Total Month and Period           | 3,948       | 3,948      | 31,875  | 2,950      | 74,183     | 63,704 | 16.1          | .658        | .504           | .047       | .351        | 8.09                     |
| Period                           | 3,863       | 3,863      | 25,035  | 703        | 3,664      | 3,145  | 1.1           | .817        | .360           | .253       |             | 8.28                     |
| Rate of Exchange -               |             |            |   |            |            |        |               |             |                |            |             |                          |
| Month and Period 1941 = \$4.0300 |             |            |   |            |            |        |               |             |                |            |             |                          |
| " " " 1940 = \$4.0500            |             |            |   |            |            |        |               |             |                |            |             |                          |

February 6, 1941

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ○Farm Depreciation (Include Irrigation and Disease Control)

United Fruit Company, Jamaica Division

SUPPLEMENT TO FORM 1187 - BANANAS, FOR PERIOD ENDED JANUARY 1941

FARM REPORT INCLUDING CULTIVATION, DEPRECIATION & PROPERTY LOSSES

|               | Acres<br>in<br>Bearing | Mainten-<br>ance | Harvest-<br>ing | Cultiv.<br>Dep. &<br>Prop.<br>Losses | Counts | Cost per Ct.         |                          | Cost per Ac.       |                          |
|---------------|------------------------|------------------|-----------------|--------------------------------------|--------|----------------------|--------------------------|--------------------|--------------------------|
|               |                        |                  |                 |                                      |        | Mtcs.<br>&<br>Hvstg. | Deprn.<br>&<br>P. Losses | Mtcs.<br>&<br>only | Deprn.<br>&<br>P. Losses |
|               |                        |                  |                 |                                      |        | U.S. Currency        |                          | U.S. Currency      |                          |
| St. Catherine | 3,612                  | 29,156           | 2,786           | 9,474                                | 59,373 | .538                 | .160                     | 8.07               | 2.68                     |
| St. Thomas    | 330                    | 2,719            | 164             | 564                                  | 3,981  | .733                 | .142                     | 8.24               | 1.71                     |
| Total -       | 3,942                  | 31,875           | 2,950           | 10,038                               | 63,354 | .561                 | .159                     | 8.09               | 2.55                     |

Farm cost includes treating "Leaf Spot" and "Panama Disease" which work out at \$ .121 per count bunch.

Copy to: Mr. A. A. Pollan  
" T. Bradshaw  
Dr. W. Popence

Kingston, Jamaica.  
February 6, 1941.

1941 CROP

UNITED FRUIT

COMPANY,

JAMAICA

DIVISION

Form 1187-5

PERIOD COMMENCED: 4-28-40

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF

DECEMBER, 1941

| NO. OF WEEKS<br>FARM | SUCRENTKANKANOR AND CULTIVATION |                  |                |                  |             | HARVESTING    |             |                 |               |             | TOTAL COST      |   |         |          |              |
|----------------------|---------------------------------|------------------|----------------|------------------|-------------|---------------|-------------|-----------------|---------------|-------------|-----------------|---|---------|----------|--------------|
|                      | THIS YEAR                       |                  | LAST YEAR      |                  | Acre<br>Ctd | THIS YEAR     |             | LAST YEAR       |               | Acre<br>Ctd | THIS YEAR       |   | This Yr | Last Yr  |              |
| Acre<br>Mature       | EXPENDITURE                     | Coal per<br>Acre | Acre<br>Mature | Coal per<br>Acre |             | TONS PRODUCED | EXPENDITURE | Coal per<br>Ton | TONS PRODUCED |             | Coal per<br>Ton | Farm Expenditure<br>Excludes Depreciation |         |          | COST PER TON |
| BEHAVIOR LABOR       |                                 |                  |                |                  |             |               |             |                 |               |             |                 |   |         |          |              |
| Dockers Park         | 10                              | 285 29 29 24     |                |                  |             | 14 81         |             |                 |               |             | 311 20          |   |         |          |              |
| Dockers Park         | 94                              | 4 803 89 44 72   |                |                  |             | 428 21        |             |                 |               |             | 4 670 84        |   |         |          |              |
| Dockers Park         | 97                              | 6 083 28 68 71   |                |                  |             | 761 08        |             |                 |               |             | 5 944 37        |   |         |          |              |
| Dockers Park         | 7                               | 242 72 24 72     |                |                  |             | 12 10         |             |                 |               |             | 256 15          |   |         |          |              |
| Phonetic Park        | 32                              | 1 133 84 24 26   |                |                  |             | 98 67         |             |                 |               |             | 1 238 51        |   |         |          |              |
| March Park           | 1270                            | 44 825 98 86 06  |                |                  |             | 5 206 77      |             |                 |               |             | 50 030 75       |   |         |          |              |
| Windsor Park         | 817                             | 12 248 26 21 85  |                |                  |             | 3 228 81      |             |                 |               |             | 16 662 07       |   |         |          |              |
| Superintendents      |                                 | 3 168 38 1 49    |                |                  |             |               |             |                 |               |             | 3 189 88        |   |         |          |              |
| Lave Shoak           |                                 | 1 188 15 54      |                |                  |             |               |             |                 |               |             | 1 188 15        |   |         |          |              |
| Total Period         | 3128                            | 74 125 24 34 88  |                |                  |             | 10 127 46     |             |                 |               |             | 84 225 40       |   |         |          |              |
| 1931 Month           | 2128                            | 4 249 48 2 23    |                |                  |             | 1 125 79      |             |                 |               |             | 5 876 25        |   |         |          |              |
|                      |                                 |                  |                |                  |             |               |             |                 |               |             |                 | Rate of Exchange - Month                  |         |          |              |
|                      |                                 |                  |                |                  |             |               |             |                 |               |             |                 | Period                                    |         | \$1.0300 |              |
|                      |                                 |                  |                |                  |             |               |             |                 |               |             |                 | Period                                    |         | \$1.7985 |              |

 APR 6 1941  
 (Date)

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

3rd February, 1941.

VIA AIR MAIL

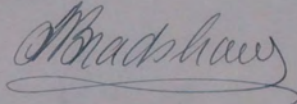
Dr. V. C. Dunlap,  
Apartado 26,  
Santiago,  
Dominican Republic.

Dear Dr. Dunlap,

I refer to Mr. Pollan's letter to you of January 30th in regard to my recommendation that we use Perenox on 50% of our cultivations in Jamaica.

There is one point I would like to comment upon which is the disadvantage of Perenox mentioned in Mr. Pollan's letter, viz: difficulty in supervision because of poor visibility of Perenox on the leaves. Under our present system of spraying in St. Catherine where we now concentrate all our spray machines at two points in the district, the supervision is such that the disadvantage above referred to has been eliminated entirely in our case.

Yours very truly,



Copy to Mr. A. A. Pollan,  
Mr. H. Rowe  
Mr. W. E. Turnbull  
Dr. Wilson Popenoe ✓

February 13, 1941

Mr. T. Bradshaw, Manager  
United Fruit Company  
Kingston, Jamaica

Dear Mr. Bradshaw:

Again referring to your letter of January 25th regarding the use of Perenox for control of Sigatoka disease on about 50% of your cultivations.

I have received reply to my letter to Dr. Dunlap, and he states:

"Under St. Catherine conditions I have no doubt excellent control can be obtained with Perenox as has been demonstrated by Mr. Butler's experiments. On the whole, control with Perenox has been satisfactory in Honduras except where exposed to virulent type of infection. Under such virulent conditions, Bordeaux 5-5-50 is definitely superior to Perenox.

"Where spray is applied with fixed nozzles on portable machines our objections based on trouble in inspection due to inconspicuous residues would be eliminated.

"In view of the reasons Mr. Bradshaw gives for his recommendation I should think it would be a good idea to make the change."

It will, therefore, be in order for you to use Perenox instead of Bordeaux mixture.

I shall be interested in hearing from you as to whether it will be possible for you to dispose of your excess Copper Sulphate and Lime locally as mentioned my letter of January 30th.

Yours very truly,

*A. A. Peckham*

Copy to: Mr. H. Rowe  
Mr. W. E. Turnbull  
Dr. Wilson Popenoe  
Dr. V. C. Dunlap

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

VIA AIR MAIL

February 14th 1941

Mr. A.A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston, Mass.

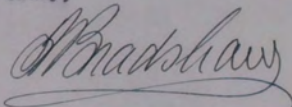
Dear Mr. Pollan,

I have your letter of January 30th in regard to my recommendation that we use Perenox for the control of Sigatoka on half of our cultivations here.

Enclosed I forward you a memorandum giving full details of the present cost of Bordeaux mixture and of Perenox from which you will note that on our present basis of operations with free materials we would save 17¢ per cycle acre if we spread full strength materials, and about 9¢ per acre if we were able to go to the 3.3.50 basis.

As the Government assistance is only temporary I ignored this in making my recommendations. I believe it is better not to approach Government in regard to our copper stocks until we hear from Dr. Dunlap in the matter.

Yours very truly,



Copy to Mr. H. Rowe  
Mr. W.E. Turnbull  
Dr. Wilson Popenoe ✓  
Dr. V.C. Dunlap



SPRAY MATERIAL INFORMATION

Cost of Materials as of February 12th 1941

|                       |          |             |
|-----------------------|----------|-------------|
| Copper sulphate ..... | \$4.75   | per 100 lbs |
| Hydrated Lime .....   | .822     | " " "       |
| Standard Perenox      | \$20.150 | " "         |

|  |  |
|--|--|
| Copper Sulphate contains 25 per cent of copper by weight |  |
| Standard Perenox " 50 " " " "                            |  |
| Bentonite Perenox " 40 " " " "                           |  |

The I.C.I. makers of Perenox recommend the use of  $2\frac{1}{2}$  lbs of Standard Perenox per 100 Imperial Gallons, and consider this solution to be as effective as the 5-5-50 Bordeaux.

The spraying outfits in use here are American, therefore in order to use the solution recommended by the I.C.I. we mix 2.125 lbs of Perenox per 100 American Gallons - or a mixture of  $4\frac{1}{2}$  lbs per Spray Tank of 200 gallons.

The average coverage is 180 Gallons per acre. On this basis the following would be the costs per cycle acre for materials:-

|                       |          |                                      |
|-----------------------|----------|--------------------------------------|
| Bordeaux 5.5,50 costs | \$ 0.953 | per acre, using 180 gallons per acre |
| " 3.3,50 "            | \$ 0.571 | " " " "                              |
| Standard Perenox) "   | \$ 0.770 | " " " "                              |
| of 2.125 lbs per)     |          |                                      |
| American gallon )     |          |                                      |

|                   |                                      |
|-------------------|--------------------------------------|
| Standard Perenox) |                                      |
| of 1.275 lbs per) | costs \$ 0.462                       |
| American gallon ) | per acre, using 180 gallons per acre |

Government allows 10 lbs of copper sulphate crystals and 10 lbs of hydrated lime per acre per month, or

Government allows alternatively  $2\frac{1}{2}$  lbs of Perenox per acre per month

Material Costs per acre per month (of four weeks) would be as follows:-

|                               |       |        |          |          |         |     | Cost     |
|-------------------------------|-------|--------|----------|----------|---------|-----|----------|
| Bordeaux Mixture of 5.5.50    | using | 180    | gallons  | per      | acre    |     | \$ 1.271 |
| " "                           | " "   | 3.3.50 | " "      | 180      | " "     | " " | \$ 0.761 |
| Standard Perenox of 2.125 lbs | per   | 100    | American | gallons, | using   |     | \$ 1.020 |
| " "                           | " "   | 1.275  | " "      | 180      | gallons | per | \$ 0.616 |
|                               |       |        |          | acre     |         |     |          |

The value of the Government allotment of 10 lbs copper and 10 lbs hydrated lime per acre per month is, at the present costs of lime and copper \$ 0.530 per month.

The value of the Government allotment of  $2\frac{1}{2}$  lbs of Standard Perenox per acre per month, at the present cost of Standard Perenox, is \$ 0.503.

Therefore the cost per acre per month of 4 weeks to the Company for the various solutions, using 180 gallons per cycle acre after deducting the Government allowance, would be as follows:-

|                     |            |         |     |      |     |       |
|---------------------|------------|---------|-----|------|-----|-------|
| Bordeaux 5.5.50     | would cost | \$0.741 | per | acre | per | month |
| " 3.3.50            | " "        | \$0.231 | "   | "    | "   | "     |
| Standard Perenox )  |            |         |     |      |     |       |
| of 2.125 lbs per )  | " "        | \$0.517 | "   | "    | "   | "     |
| 100 American Galls) |            |         |     |      |     |       |
| Standard Perenox )  |            |         |     |      |     |       |
| of 1.275 lbs per )  | " "        | \$0.113 | "   | "    | "   | "     |
| 100 American Galls) |            |         |     |      |     |       |

The costs per cycle acres after deducting the Government allowance would therefore be as follows:-

|   |            |         |     |       |      |
|---|------------|---------|-----|-------|------|
| Bordeaux 5.5.50   | would cost | \$0.556 | per | cycle | acre |
| " 3.3.50  | " "        | \$0.173 | "   | "     | "    |
| Standard Perenox of 2.125 lbs per 100<br>American gallons | " "        | \$0.388 | "   | "     | "    |
| Standard Perenox of 1.275 lbs per 100<br>American gallons | " "        | \$0.085 | "   | "     | "    |

## UNITED FRUIT COMPANY, JAMAICA DIVISION

SUPPLEMENT TO FORM 1187 - BANANAS - PERIOD ENDED FEBRUARY 1941FARM REPORT INCLUDING CULTIVATION DEPRECIATION & PROPERTY LOSSES

| District       | Acres<br>in<br>Bearing | Mainten-<br>ance | Har-<br>vesting | Cultv.Deprn.<br>and<br>Prop.Losses | Counts  | Cost per count  |                     | Cost per acre   |                 |
|----------------|------------------------|------------------|-----------------|------------------------------------|---------|-----------------|---------------------|-----------------|-----------------|
|                |                        |                  |                 |                                    |         | Har-<br>vesting | and<br>Prop. Losses | Cult.<br>Deprn. | Cult.<br>Deprn. |
| U. S. Currency |                        |                  |                 |                                    |         | U.S. Currency   |                     |                 |                 |
| St. Cath       | 3,591                  | 60,379           | 5,676           | 17,358                             | 137,043 | .482            | .127                | 16.81           | 4.83            |
| St. Thomas     | 339                    | 5,349            | 362             | 1,488                              | 7,370   | .775            | .202                | 15.78           | 4.39            |
| TOTAL          | 3,930                  | 65,728           | 6,038           | 18,846                             | 144,413 | .497            | .131                | 16.72           | 4.80            |

Farm cost includes treating "Leaf Spot" and  
"Panama Disease" which work out @ \$.102 per count bunch.

Copy to: Mr. A. A. Pollan  
Mr. T. Bradshaw  
Dr. W. Popehoe

Kingston, JAMAICA  
March 6, 1941.

*Reference*

FARM REPORT FOR PERIOD ENDED

FEBRUARY 1941

PRODUCT

ORANGE

| FARMS                | ACREAGE     |             | Δ EXPENDITURE                                   |             | PRODUCTION    |               |                | COST PER COUNT |             |             | COST PER ACRE MTC. ONLY |               |
|----------------------|-------------|-------------|---|-------------|---------------|---------------|----------------|----------------|-------------|-------------|-------------------------|---------------|
|                      | * IRRIGATED | IN BEARING  | Farm Maintenance and Disease and Insect Control | HARVESTING  | Stems         | Counts        | Yield PER ACRE | COUNT RATIO    | Farm Mctc.  | Harvesting  |                         | ○ Farm Deprn. |
| <u>ST. CATHERINE</u> |             |             |   |             |               |               |                |                |             |             |                         |               |
| Wilson Store         | 292         | 292         | 4920  | 659         | 23962         | 19685         | 65.6           | .822           | .250        | .023        | .077                    | 16.25         |
|                      | 172         | 172         | 2823  | 71          |               |               |                |                |             |             |                         | 16.92         |
| Congrave Park        | 861         | 861         | 11984   | 1035        | 36531         | 30855         | 35.6           | .845           | .388        | .034        | .214                    | 13.92         |
|                      | 732         | 732         | 9783  | 307         | 4079          | 3324          | 4.5            | .815           | 2.945       | .092        |                         | 16.97         |
| Twickenham Park      | 65          | 65          | 1139  | 90          | 878           | 805           | 12.6           | .962           | 1.413       | .112        | .517                    | 16.09         |
|                      | 18          | 18          | 571   | 88          |               |               |                |                |             |             |                         | 31.75         |
| Bushy Park           | 229         | 229         | 4053  | 445         | 5691          | 4704          | 20.5           | .827           | .861        | .095        | .612                    | 17.70         |
|                      | 973         | 273         | 4474  | 306         | 457           | 285           | 1.0            | 6.26           | 5.665       | .219        |                         | 15.72         |
| Half-way Tree        | 627         | 627         | 8998  | 683         | 32604         | 28981         | 45.5           | .868           | .311        | .034        | .289                    | 14.13         |
|                      | 395         | 395         | 5285  | 258         | 1245          | 1198          | 3.0            | .962           | 4.412       | .212        |                         | 11.28         |
| Barnard Lodge        | 214         | 214         | 4173  | 284         | 4848          | 4227          | 19.8           | .872           | .987        | .067        | .991                    | 14.50         |
|                      | 166         | 166         | 2698  | 23          | 39            | 36            | 2              | .922           | 2.128       | .850        |                         | 15.82         |
| Goshen               | 280         | 280         | 4716  | 919         | 26817         | 23265         | 61.2           | .869           | .269        | .042        | .211                    | 17.87         |
|                      | 293         | 293         | 4612  | 66          | 1226          | 1129          | 3.9            | .919           | 4.085       | .076        |                         | 16.74         |
| Phoenix Park         | 482         | 482         | 7168  | 779         | 18118         | 14948         | 31.0           | .825           | .480        | .052        | .449                    | 14.82         |
|                      | 357         | 357         | 5617  | 105         | 156           | 151           | 4              | .810           | 37.197      | .332        |                         | 15.72         |
| Lawrencefield        | 426         | 426         | 7572  | 480         | 11828         | 9592          | 22.5           | .847           | .789        | .050        | .580                    | 17.77         |
|                      | 283         | 283         | 4753  | 31          | 192           | 172           | 6              | .927           | 2.558       | .172        |                         | 13.79         |
| Superintendence      |             |             | 3055  |             |               |               |                |                | .022        |             |                         | .25           |
|                      |             |             | 5527  |             |               |               |                |                | .234        |             |                         | 1.81          |
| Live Stock           |             |             | 601   |             |               |               |                |                | .004        |             |                         | .17           |
|                      |             |             | 1127  |             |               |               |                |                | .172        |             |                         | .22           |
| <u>Total Period</u>  | <u>3591</u> | <u>3591</u> | <u>60329</u>                                    | <u>5276</u> | <u>180237</u> | <u>137043</u> | <u>38.2</u>    | <u>.853</u>    | <u>.344</u> | <u>.047</u> | <u>.300</u>             | <u>16.81</u>  |
|                      | 2690        | 2690        | 45178   | 1176        | 7444          | 6338          | 2.4            | .851           | 7.122       | .185        |                         | 16.72         |
| <u>Total Month</u>   | <u>2670</u> | <u>2670</u> | <u>31923</u>                                    | <u>2690</u> | <u>91610</u>  | <u>77670</u>  | <u>21.8</u>    | <u>.848</u>    | <u>.402</u> | <u>.027</u> | <u>.267</u>             | <u>8.75</u>   |
|                      | 2741        | 2741        | 22637   | 504         | 2999          | 2673          | 1.3            | .892           | 6.739       | .341        |                         | 8.16          |
| <u>ST. JAMES</u>     |             |             |   |             |               |               |                |                |             |             |                         |               |
| Springfield          | 85          | 85          | 1076  | 85          | 3752          | 2705          | 31.8           | .731           | .398        | .031        | .150                    | 12.66         |
|                      | 48          | 48          | 773   | 1           | 13            | 10            | 2              | .802           | 7.812       | .119        |                         | 13.27         |
| Alvina               | 254         | 254         | 4141  | 277         | 5794          | 4665          | 18.4           | .805           | .888        | .059        | .680                    | 16.30         |
|                      | 303         | 303         | 3865  | 56          | 706           | 630           | 2.1            | .892           | 3.157       | .085        |                         | 12.22         |
| Superintendence      |             |             | 132   |             |               |               |                |                | .012        |             |                         | .29           |
|                      |             |             | 103   |             |               |               |                |                | .170        |             |                         | .21           |
| <u>Total Period</u>  | <u>339</u>  | <u>339</u>  | <u>5349</u>                                     | <u>362</u>  | <u>9548</u>   | <u>7370</u>   | <u>21.7</u>    | <u>.772</u>    | <u>.728</u> | <u>.049</u> | <u>.483</u>             | <u>15.22</u>  |
|                      | 251         | 251         | 4770  | 57          | 718           | 640           | 1.8            | .841           | 7.463       | .089        |                         | 12.57         |
| <u>Total Month</u>   | <u>348</u>  | <u>348</u>  | <u>2630</u>                                     | <u>196</u>  | <u>4430</u>   | <u>3459</u>   | <u>9.9</u>     | <u>.766</u>    | <u>.765</u> | <u>.058</u> | <u>.222</u>             | <u>7.25</u>   |
|                      | 351         | 351         | 3273  | 25          | 399           | 261           | 7              | .872           | 8.707       | .027        |                         | 6.27          |

March 6, 1941.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 Δ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (Include Irrigation and Disease Control)

UNITED FRUIT COMPANY, TABAYCA DIVISION

FARM REPORT FOR PERIOD ENDED FEBRUARY 1941 PRODUCT BANANAS

| FARMS                   | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |        |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|-------------------------|-----------|------------|---|------------|------------|--------|---------------|-------------|----------------|------------|-------------|--------------------------|
|                         | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | STONS      | COUNTS | Cts. PER ACRE |             | Farm Mtce.     | Harvesting | Farm Deprn. |                          |
| <u>RECAPITULATION</u>   |           |            |   |            |            |        |               |             |                |            |             |                          |
| <u>PERIOD - 5 Weeks</u> |           |            |   |            |            |        |               |             |                |            |             |                          |
| St. Catherine           | 3591      | 3591       | 60379   | 5676       | 160737     | 137043 | 38.2          | .832        | .441           | .041       | .300        | 16.81                    |
|                         | 3690      | 3690       | 45175   | 1175       | 7444       | 6333   | 8.4           | .8517       | .138           | .195       |             | 16.79                    |
| St. Thomas              | 359       | 339        | 5349  | 362        | 9546       | 7370   | 21.7          | .772        | .726           | .049       | .465        | 15.78                    |
|                         | 351       | 351        | 4770  | 57         | 718        | 640    | 1.6           | .8917       | .453           | .089       |             | 18.59                    |
| TOTAL PERIOD            | 3950      | 3930       | 65298   | 6038       | 170393     | 144413 | 35.7          | .848        | .455           | .042       | .310        | 16.72                    |
|                         | 4041      | 4041       | 49945   | 1232       | 8162       | 6978   | 2.3           | .8357       | .154           | .177       |             | 16.42                    |
| <u>PERIOD - 4 Weeks</u> |           |            |   |            |            |        |               |             |                |            |             |                          |
| St. Catherine           | 3570      | 3570       | 31223   | 2890       | 91610      | 77670  | 21.8          | .848        | .408           | .037       | .267        | 8.75                     |
|                         | 3741      | 3741       | 22657   | 504        | 3999       | 3572   | 1.3           | .8936       | .337           | .141       |             | 8.25                     |
| St. Thomas              | 348       | 348        | 2630  | 199        | 4490       | 3439   | 9.9           | .766        | .765           | .059       | .529        | 7.56                     |
|                         | 351       | 351        | 2372  | 25         | 599        | 361    | .7            | .9738       | .707           | .037       |             | 6.47                     |
| TOTAL PERIOD            | 3918      | 3918       | 33853   | 3088       | 96100      | 81109  | 20.7          | .844        | .417           | .029       | .278        | 8.24                     |
|                         | 3092      | 3092       | 24910   | 529        | 4898       | 3833   | 1.2           | .8926       | .499           | .133       |             | 6.06                     |
| Rate of Exchange -      |           |            |   |            |            |        |               | 1941 Month  | \$4.0300       |            |             |                          |
|                         |           |            |   |            |            |        |               | 1941 Period | \$4.0131       |            |             |                          |
|                         |           |            |   |            |            |        |               | 1940 Period | \$4.0300       |            |             |                          |

March 5, 1941

DATE

\*Average under Irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 ‡Use two lines for each farm. Show last year's figures in red.  
 Δ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (Include Irrigation and Disease Control)

1941 CROP

PERIOD COMMENCED: 5-28-40

DUNEDIN

COMPANY,

SUGAR

Form 1197 S

DIVISION

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF

JANUARY 1941.

| NO. OF WEEKS<br>FARM | SImpRIMENDANCE AND CULTIVATION |                  |                 |                  |              |                       | HARVESTING       |             |                 |              |                       |                  | TOTAL COST                                 |          |          |                    |
|----------------------|--------------------------------|------------------|-----------------|------------------|--------------|-----------------------|------------------|-------------|-----------------|--------------|-----------------------|------------------|--|----------|----------|--------------------|
|                      | THIS YEAR                      |                  |                 | LAST YEAR        |              |                       | THIS YEAR        |             |                 | LAST YEAR    |                       |                  | Farm Expenses<br>Excludes all Depreciation | Tht. Yr. | Lst. Yr. |                    |
| Acres<br>Mature      | EXPENDITURE                    | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Tons Cane<br>Produced | Tons per<br>Acre |  |          |          | Tons<br>per<br>Ton |
| STANDARD LOGS - 81   |                                |                  |                 |                  |              |                       |                  |             |                 |              |                       |                  |  |          |          |                    |
| DOUGLASS Pk.         | 10                             | 236              | 23.28           | 10               | 236          | 23.28                 | 10               | 236         | 23.28           | 10           | 236                   | 23.28            | 10   | 236      | 23.28    | 10                 |
| Walden Pk.           | 94                             | 4,015            | 42.70           | 94               | 4,015        | 42.70                 | 94               | 4,015       | 42.70           | 94           | 4,015                 | 42.70            | 94   | 4,015    | 42.70    | 94                 |
| Dunlop Pk.           | 97                             | 5,733            | 59.37           | 97               | 5,733        | 59.37                 | 97               | 5,733       | 59.37           | 97           | 5,733                 | 59.37            | 97   | 5,733    | 59.37    | 97                 |
| Cochar               | 7                              | 319              | 45.71           | 7                | 319          | 45.71                 | 7                | 319         | 45.71           | 7            | 319                   | 45.71            | 7  | 319      | 45.71    | 7                  |
| Proctor Park         | 23                             | 1,068            | 46.43           | 23               | 1,068        | 46.43                 | 23               | 1,068       | 46.43           | 23           | 1,068                 | 46.43            | 23   | 1,068    | 46.43    | 23                 |
| Beach Pk.            | 1270                           | 41,879           | 32.96           | 1270             | 41,879       | 32.96                 | 1270             | 41,879      | 32.96           | 1270         | 41,879                | 32.96            | 1270                                       | 41,879   | 32.96    | 1270               |
| Blindfold Park       | 517                            | 18,291           | 35.36           | 517              | 18,291       | 35.36                 | 517              | 18,291      | 35.36           | 517          | 18,291                | 35.36            | 517  | 18,291   | 35.36    | 517                |
| Superintendent       |                                | 2,834            | 1.39            |                  | 2,834        | 1.39                  |                  | 2,834       | 1.39            |              | 2,834                 | 1.39             |  | 2,834    | 1.39     |                    |
| Lava Stock           |                                | 1,051            | 49              |                  | 1,051        | 49                    |                  | 1,051       | 49              |              | 1,051                 | 49               |  | 1,051    | 49       |                    |
| Total Period         | 2183                           | 65,106           | 30.28           | 2183             | 65,106       | 30.28                 | 2183             | 65,106      | 30.28           | 2183         | 65,106                | 30.28            | 2183                                       | 65,106   | 30.28    | 2183               |
| Total Month          | 2183                           | 4,688            | 2.14            | 2183             | 4,688        | 2.14                  | 2183             | 4,688       | 2.14            | 2183         | 4,688                 | 2.14             | 2183                                       | 4,688    | 2.14     | 2183               |

Rate of Exchange - Month \$1.0300  
Period \$0.1825

Form 1197 S  
(Date)

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

February 21st 1941

My dear Pop,

I hang my head in shame when I consider that it is nearly six months since I last wrote to you, but I hope you will be able to forgive me when you bear in mind that we have had a really hellish time here during that period. As you know, T.B. went over to England and, far from writing personal letters, it was a difficult job for me to keep up with the work that passed through our hands during his absence. Upon his return we went into the throes of Government Control of the banana industry, and I presume that you have already heard that Government makes all purchases of bananas for which they, through the help of the Imperial Government, have been able to guarantee a price of 3/- per count bunch for this year's production.

I do not think you will be surprised to learn that Leaf Spot has become rampant practically throughout the entire Island, and even St. Thomas and Portland, which had kept fairly free of the disease up to last year, now have infection rated as high as No.4. Unfortunately, not one of the growers in the Island is co-operating with Government in an effort to control the disease, and their latest excuse is that as the price guaranteed by Government amounts to only 3/- per count, they cannot afford to buy any spray materials, and if they cannot get the required amounts free of charge from the Government they might as well abandon their cultivations. After the amount of work that our people have put into this question of Leaf Spot control it is very disheartening to hear this kind of stuff from people like the Lindos, Percy Junor, H.G. DeLisser, etc., who, considering their holdings and positions, should have more intelligence in this respect. They all come in to see me at one time or another, and when they do my blood begins to boil, but of course it is necessary for me to snuff out any fire that could easily appear in my replies to them.

I am forwarding herewith copy of my Annual Report covering the Leaf Spot Control Department as I think you will be quite interested in the figures and statements contained therein. As a matter of fact, since this report was rendered Butler has made a survey of the entire Island and his report is quite alarming as far as the future prospects of the banana industry in Jamaica are concerned. Possibly when T.B. writes up north in order to give them an outline of the present situation, he will more than likely send you a copy. In any case I will make this suggestion to him.

We have had visits from quite a number of old friends lately

including Reg and Walter Hamer, Mr. Turnbull and Mr. Jackson, and I have also had the pleasure of meeting for the first time Bowman and Van Diepen, together with their respective wives, and found them to be very charming people. They certainly do have a grand lot over in Honduras, and Con and I will really have to try and accept Mildred's invitation of going over there and spending a little time with the Maxwells.

Mary is typing this letter for me, which is an indication of how little she has to do these days in connection with Leaf Spot, but one good thing about this is that she is able to help me with my other work. She has already written to you so there is no need for me to refer further to her actions, etc. All of us here are getting along as well as ever, although somewhat saddened by what they are going through at home. However, we all do what we can in obtaining funds and look forward to the time when we can do a devil of a lot more to help them.

With kindest regards from Connie and myself to Elena, yourself and the family,

Sincerely yours,

Bornato

Enclosure





# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

VIA AIR MAIL

March 19th 1941

Mr. A.A. Pollan,  
Executive Vice-President,  
United Fruit Company,  
Boston, Mass.

Dear Mr. Pollan,

I refer to your letter of February 13th authorising us to put about 50% of our cultivations on Perenox spray for control of Sigatoka. After going into this matter carefully I find that we have on hand and on order one year's supply of lime, and two years' supply of copper sulphate. Under present circumstances, and in view of your round letter of March 6th, I recommend we retain this stock of copper sulphate against our own future requirements. The Government here is not interested in the purchase of any of this material as they have a large supply of both lime and copper on hand.

Yours very truly,

Copy to Mr. H. Rowe  
Mr. W.E. Turnbull  
Dr. Wilson Popenoe ✓  
Dr. V.C. Dunlap

PERENOX STOCK REPORT AS AT 30TH JUNE 1941

|                      |           |           |
|----------------------|-----------|-----------|
| Received Previously  | 621 drums |           |
| Received This Month  | 34 "      |           |
| Delivered Previously |           | 603 drums |
| Delivered This Month |           | 9 "       |
| On hand              |           | 43        |
| <hr/>                |           |           |
| 655 drums            | -         | 655 drums |
| <hr/>                |           |           |

DELIVERIES

|                              |         |
|------------------------------|---------|
| Roy Lindo - Ballards Val ley | 6 drums |
| Percy Lindo - Brimmer Hall   | 2 "     |
| Percy Lindo - Quebec Park    | 1 "     |
| <hr/>                        |         |
|                              | 9 drums |
| <hr/>                        |         |

BLUESTONE & LIME STOCK REPORT AS AT 30TH JUNE 1941

|                      | <u>BLUESTONE</u> | <u>LIME</u>       |
|----------------------|------------------|-------------------|
| Received Previously  | 20 bags          | 40 bags           |
| Received This Month  | 20 "             | 38 "              |
| Delivered Previously | 11 bags          | 21 bags           |
| Delivered This Month | 9 "              | 15 "              |
| On Hand              | 20 "             | 42                |
|                      | 40 bags          | 40 bags - 78 bags |
|                      |                  | 78 bags           |

|                      | <u>DELIVERIES</u> | <u>Bluestone</u> | <u>Lime</u> |
|----------------------|-------------------|------------------|-------------|
| Percy Lindo - B/Hall |                   | 9 bags           | 15 bags     |

BANANA LEAF SPOT CONTROL BOARD  
Department of Science and Agriculture,

Ref.No. IHC/1j

JAMAICA, B.W.I.

June 26th, 1941.

VIA AIRMAIL

Dear ~~Dr.~~ Popenoe,

I was very glad to receive your letter of the 1st June, but was disappointed to learn that having been so near us in Cuba, you were unable to pay us a visit.

I am interested to hear of the United Fruit Company's plans for an Agricultural School in Central America. Presumably it is all part of the United States' "goodwill" scheme leading up to the regional planning about which I understand your good President is so keen. There seems to be considerable movement in the West Indies to establish close co-operation between the United States and the British Colonies. The idea has been given a good start by the Naval Base schemes, but I gather that it is hoped to extend it to economic ~~and~~ and particularly the agricultural side.

We had recently a most interesting visit from Dr. Crawford in charge of the Soil Conservation Programme in Porto Rico and the Virgin Islands. Although he has not specifically said so, I gather it was in the nature of a "goodwill" visit. Certainly, although he was here for only ten days, he assisted us tremendously in broadening our views and giving us new ideas in regard to the solution of the soil erosion problem in Jamaica. The next step is the Conference in Porto Rico in the coming Fall to which representatives of all the Caribbean governments will be invited. I am hoping to be able to go, but there are many candidates from Jamaica.

I do not know to what extent Butler has kept you informed of the recent developments in Leaf Spot work. As you will have seen from Leach's papers, he is now satisfied that all the important infection takes place on the heart leaf and within seven days of its appearance. Leach has now succeeded in making Bordeaux or Perenox stay on the heart leaf by the use of a combined sticker and wetter such as Agral. He has found that by spraying the centre leaf and the first leaf on a cycle of seven days so that each leaf received two spraying in its life, he is able to effect almost perfect control. He has succeeded in doing this near to Kingston in conditions of severe infection, even to the extent of controlling the disease on a follower when the parent and adjoining trees are severely infected. It is now being tried in other areas of the Island and there is every indication that it will be successful even under the wet conditions in the West end. It is another problem, of course, to apply the results on a practical basis. I do not think that it will affect the big properties in Jamaica. The difficulty of spraying every week will be considerable; the importance of which will probably be for the small man, but we shall have to devise some readily transportable equipment so that he can get through his bananas spraying just the two leaves rapidly and easily. One of the advantages of it is the psychological effect it should have on the small grower when he finds that once a leaf has been sprayed, it does not get any spots. Leach hopes that once having established control in an area of bananas, (it should require approximately ten weekly sprayings) when you will be able to let up on the spraying for sometime particularly as you have the knowledge that even after spots have appeared, it can be controlled readily. We are laying down trials to see to what extent this is true. Our chief problem at the moment is to devise suitable equipment, and as far as the Board is

concerned, we are going very carefully in regard to the purchase of additional equipment of the old type. In general fewer and fewer small growers appear to be spraying although the larger growers are still going ahead and appear to be making money on their 3/- per bunch; they have, of course, free materials. Nobody is buying additional ~~equipment~~ (they get an allotment equivalent to 100 gallons per acre per month) but still seem to be maintaining control.

There has been considerable pressure on Government recently to undertake the supervision of spraying even though the staff required were financed by the Companies. Government has told the Companies that they have no objection to their setting up their own single supervisory staff, but that they will not undertake the responsibility of controlling that staff. It would probably mean that it was the first step towards Government undertaking spraying for growers, which, as you know, would be an impossible situation in this country. In any case, I do not see how one organisation would be any more successful in getting the small grower to spray than the three organisations at the moment.

I hope that the Soil Science Society in Florida may yet be another means of exchanging information and getting uniformity of work throughout this area. Thank you very much indeed for putting my name down and committing yourself not only for one year but for an indefinite time to come. As a result of Dr. Crawford's visit, I have had some reports from Porto Rico prepared by J.J. Landron and Juan Juarez, from a Soil Survey Report by R.C. Robert. The idea is that we may be able to tie up methods of description in Jamaica with those in Porto Rico and Cuba.

I have had no opportunity of mentioning your book "On The Unpaid Debts" to Platt. He has been particularly off recently although the last time I saw him he seemed better. They are again moving up to Stony Hill.

We have both been keeping very fit. - At present, Sir Frank Stockdale and the Inspector General of Agriculture, Mr. Wakefield, are providing us with plenty of work. They arrived last week and are turning their attention first of all to Sugar, but Bananas will receive their turn in the near future.

Our kindest regards to Helen, and to your good self. I hope the heat of Columbia is not overpowering you completely.

Yours sincerely,

Herbert Rodde

Dr. Wilson Popenoe,  
Magdalena Fruit Company,  
Santa Marta,  
Columbia.

VIA AIR MAIL  
AUG 25 1941  
LAURENCE

August 19, 1941

Via Air Mail

Mr. T. Bradshaw, Manager  
United Fruit Company  
Kingston, Jamaica

Dear Mr. Bradshaw:

I am sure you recall that we have a large cacao acreage at Tenguel in Ecuador. Dr. Popence was there last month and has recommended that some young man be sent there to take care of the cacao. He has suggested Thomas D. Grieve as the most likely person for the job, and I am writing to ask if you think he could be released.

So that you may have an idea of what some of the work is, I quote from Dr. Popence's letter of July 31st:

"The hard part of this job will be the propagating and it will take a good deal of skill to do this well. Grieve was trained in Scotland, where they are as good at plant propagation as anywhere else in the world. He would need to go to Trinidad for a few months and get hold of the principles of selection and their technique in growing cuttings. Then we could outline a program for him at Tenguel, which, I believe, he could handle satisfactorily.

"I believe it would be well to discuss this matter with Tom Bradshaw and Butler, as they know Grieve better than I do."

I shall appreciate hearing from you about this, and if you decide that we can have young Grieve, I should want Dr. Popence to outline for him the work which he is to undertake in Trinidad.

Yours very truly,

*A. A. Pollard*

Copy to: Mr. W. E. Turnbull  
Dr. W. Popence - Guatemala  
Mr. R. H. Goodell

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

22nd August, 1941.

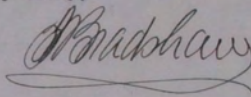
VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Pollan,

I have your letter of August 19th and have discussed this matter with Mr. Butler, who considers Grieve would be a very suitable man for the work you require to have done in Ecuador. We can spare Grieve at any time and I will await your further advice regarding his trip to Trinidad.

Yours very truly,



Copy to Mr. W. E. Turnbull  
Dr. W. Popenoe - Guatemala ✓  
Mr. R. H. Goodell

C O P Y.

Cedar Grove Experiment Station,  
Gregory Park P.O.

August 26, 1941.

Mr. Bradshaw:

Yesterday I spent the day with Mr. Leach. We visited his spray plots at The Manor House and also at Stony Hill. In addition, he was kind enough to make available for examination and discussion all the records from his plots in the Montego Bay area.

His spray plots have been treated as follows:- Each week all leaves that have opened during the past seven days are thoroughly sprayed on the under surface only using Perenox with a spreader. This means that the leaves of each plant and follower have received one spraying only applied when the leaf was no more than seven days old.

While these plots all show more disease than we would care to have in our own plantations, the differences between sprayed and unsprayed leaves in the same vicinity are extremely significant. Check leaves are invariably completely burned up while his treated leaves exhibit only a moderate amount of spotting. However, where there are infected leaves overhanging the followers there has been a considerable amount of fairly severe secondary infection.

A feature of Leach's plots is that they are all small, located in the centre of heavily infected areas. Ascospore discharge under such conditions, is much heavier and more of a problem than would be the case were he controlling a large area. Personally, I think that the technique of locating small scale control experiments in a very heavily infected area is open to considerable argument. By doing so one introduces an uncontrolled variable which does not normally exist in field practice. In very heavily infected areas the usual control technique is to chop down the heavily infected plants, thus reducing the spore load in the vicinity before chemical control is attempted. In view of the location of Leach's plots I think that the differences obtained comparing sprayed and unsprayed leaves assume even greater significance.

As I interpret these results it means that the method of Heart leaf spraying does offer a good prospect of control in a young plantation where there is no overhanging infection and it looks as though it might be practical under such conditions. Labour costs would probably be higher and material costs lower than with the present method.

With ratoon fields, especially where the trees are tall I cannot yet see how it can be done efficiently as a routine farm operation. There is a possibility, which is being investigated at present, that by commencing with a plantilla field, spraying as he suggests until the mother plants approach maturity, then ceasing to spray the mother plant but continuing with the followers, he may be able to maintain a clean cultivation with the use of much less material. It seems doubtful to me however, that the saving on spray materials will compensate for the additional costs for labour and the maintenance of equipment unless he can so clean up an area as to be able to quit spraying for a while.



My own reaction to the Heart leaf technique is that its value lies chiefly in adding to our knowledge of the behaviour of the disease, and any work carried out on a field scale with it will further increase this without having to make the bulk of the expenditures ourselves as has been the case in the past.

Already we know that a certain amount of the total infection occurs before the leaf is ten days old. This amount, viewed as a percentage of the whole infection, varies with climatic conditions at different times of the year and in different localities. However, there is good reason to believe that during our dry months in Jamaica it approaches 100 per cent of the total infection and the same may be true elsewhere. This infection carries the disease over to more favourable periods when reinfection and secondary infection are possible which cause mass destruction of the leaf tissues and build up the spore population in the vicinity.

One important feature of Leach's work, which we should not overlook, is that he has demonstrated that it is mechanically possible to get enough spray to stick on the underside of the youngest banana leaf to control 95 per cent or more of this type of infection. Whether we can do it economically on a field scale is something our engineers and others working with spray control can help us decide. If we can, I am sure that the task of controlling *Cercospora* will be rendered easier and this should mean cheaper.

The Ascigerous type of *Cercospora musae* has recently shown up in our St. Catherine plantations again. No ascospores were discovered between January 1st and August 20th of this year, but during the past few days we have found them in fair quantities. If they continue to show up in large numbers, I believe it would be worthwhile to remove the dead leaves during the pruning operation from August to December. Infected leaves, hanging down as they do around the follower cause quite a lot of infection during a period of the year when conditions for infection are favourable. Ascospores which are produced inside the old leaf are ejected directly on to the Heart leaf of the follower and do not come into contact with any spray. This is an essential difference from conidia which we believe come down in water suspensions containing copper ions from the overhanging sprayed leaves. They therefore have a tougher time of it.

We are continuing our observations regarding Ascospore infection.

Yours sincerely,

(Sgd.) Alfred F. Butler.

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

29th August, 1941.

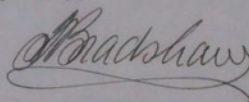
VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Pollan,

I forward you herewith a further memorandum by  
Mr. Butler in regard to the Leaf Spot experiments being carried  
out by Mr. Leach of the Department of Agriculture here.

Yours very truly,



Copy to Mr. W. E. Turnbull  
Mr. H. Rowe  
Dr. W. Popenoe ✓  
Dr. V. C. Dunlap

Enclosure.

Panama City, R. P.  
September 4, 1941

VIA AIR MAIL

Thomas Bradshaw, Esq.  
Manager, United Fruit Co.,  
Kingston, Jamaica, B.W.I.

Dear Mr. Bradshaw:

Mr. Pollan has instructed me to inquire if you would be willing to transfer Thomas D. Grieve to Ecuador for work on cacao. The story is as follows:

Our large plantings at Tenguel are badly in need of rehabilitation. But it is useless to go on planting cacao which is highly susceptible to witch broom, and which is of such mixed constitution that the quality of production would be, in any case, unsatisfactory. We have discussed the problem with Professor Cheesman in Trinidad and believe it would be worth our while to do some selection, and then propagate by cuttings. The British Government in Trinidad is adopting such a program in that Island, on a rather extensive commercial scale.

The moment is particularly favorable, because the United States Government has recently sent Dr. Kevorkian to Ecuador, and it is proposed that he shall develop an experiment station near Guayaquil, and build up a collection of selections from material all over the country. We would have access to this material.

What we want to do, therefore, is to put someone at Tenguel, someone who knows how to propagate plants, and let him grow selected varieties from cuttings just as rapidly as possible. It has been shown in Trinidad that cuttings give better results than budding or grafting. He would not need to do much of the actual selection himself, though anything along this line would be all to the good. He could work in close

Thomas Bradshaw, Esq. - 2

September 4, 1941

cooperation with Kevorkian and take advantage of all the promising strains which are brought to light.

In canvassing the field for a man, the only person now in Company employ who might possibly be available, and who has been trained in plant propagation, seems to be Grieve. I do not know how he has been getting along during the past year or so; and I have never seen him handle work of just this sort. But with his training he ought to be able to do the job. However, you and Butler will know best about this. It would be our idea, in case he were to tackle it, that he should go down to Trinidad for a couple of weeks, and let Cheesman show him how to grow cacao cuttings.

I am on my way to Guayaquil this week, not on Company business but in connection with a little job for the United States Government, and I will probably have an opportunity to discuss the matter further with Mr. Goodell. If you will write him, telling him whether or not you think Grieve can handle the job, and whether or not you are willing to transfer him, we shall greatly appreciate it. I would like to add that I personally consider this quite an opportunity for Grieve for anyone else fortunate enough to get the assignment.

With best regards.

Sincerely yours,

Wilson Popenoe

cc: Mr. A. A. Pollan  
Mr. W. E. Turnbull  
Mr. R. H. Goodell

12

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

VIA AIR MAIL

8th September, 1941.

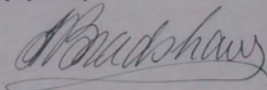
Dr. W. Popence,  
Compania Bananera del Ecuador,  
Guayaquil. Ecuador.

Dear Dr. Popence,

I have your letter of the 4th instant in regard to Thomas D. Grieve. As advised in my letter to Mr. Pollan of August 22nd, copy to you and Mr. Goodell, both Butler and I consider Grieve would be a very suitable man for the work you have in mind in Ecuador, and we can transfer him at any time you wish. Please let me know when you want Grieve to go to Trinidad and I will make the necessary arrangements.

Kind regards,

Sincerely yours,



Copy to Mr. A. A. Pollan  
Mr. W. E. Turnbull  
Mr. R. H. Goodell

G O P Y.

UNITED FRUIT COMPANY, JAMAICA DIVISION

Cedar Grove Experiment Station,  
Gregory Park P.O.

September 9, 1941.

Mr. Bradshaw:

We have recently completed a survey of the *Cercospora* activity in Section 8, Halfway Tree. Final spraying of this area was completed on June 25th, so that it is now 11 weeks since the last application. This block of bananas, which is roughly 45 acres in extent, contains approximately 20,000 mother plants and followers each having at least 10 leaves or about 400,000 leaves in all.

When the treatments were commenced status of *Cercospora* in the area was medium infection. That is to say, extension of the spraying cycle beyond 3 weeks would have been considered dangerous. At the present time I believe it would be difficult to discover 100 leaves that have more than an occasional spot, and a large percentage of the followers at present show no spotting at all.

In view of the fact that this test has been carried out during a period when we know ascospores are present in the vicinity, I believe it shows sufficient promise to be extended to a larger area. I would particularly like to see them try it in Honduras during the next dry season. If they do the following suggestions may be of interest :-

- (1) At the start of the dry season select an area on which present control is considered satisfactory but where a 3 or 4 week cycle is considered necessary.
- (2) Remove any leaves or parts of leaves showing excessive spotting, presumably 4 or 5 per 1000. This operation can make no appreciable difference to crop and cuts spore population considerably.

- (3) Remove dead leaves if these have any appreciable amount of heavy infection in order to reduce ascospore population.
- (4) Spray on weekly cycle with Bordeaux at high pressure, taking care that youngest leaves of plant and follower are covered so far as is practical. Continue this treatment for six weeks.
- (5) After spraying has ceased inspect area weekly. As spots of disease again begin to show up spray trees in contact with these spots on weekly cycle for several weeks. If this is done persistently I believe it may be possible to practically eliminate the disease from certain areas for considerable periods.

The reason I would like to see it operated in Honduras is because that area is more generally typical of the company's banana plantings than our Jamaican fields. In addition, the personnel in Honduras all accept spraying as a normal cultivation procedure and even if the system, as I have outlined it, does not hold up there, it may easily suggest another approach to their problems which they can develop and improve. The carry over of the disease on the heart leaves during adverse weather will, I am sure, apply equally as well to Honduras as Jamaica and a close spraying cycle definitely interferes with this portion of the life history of the fungus.

The period of six weeks is suggested as the minimum time in which the cycle of disease can be seriously interrupted. Where the disease is extensive the period would naturally have to be extended, so that when the treatment is completed at least 60 per cent of the leaves are practically free from spots and all leaves carry a heavy deposit of spray which we believe interferes with sporulation.

Yours sincerely,

(Sgd.) Alfred F. Butler.

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

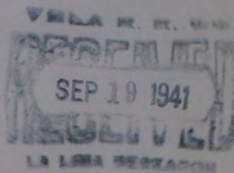
THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

11th September, 1941.

VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.



Dear Mr. Pollan,

I refer to Mr. Bradshaw's letter of July 25th, with which he forwarded you copy of memorandum prepared by Mr. Butler commenting on Dr. Dunlap's memo of June 9th in regard to Leaf Spot, and now forward herewith copy of a further memorandum from Mr. Butler on the same subject.

You will note that as a result of a survey of the Cercospora activity recently completed on our Half Way Tree Farm in St. Catherine Mr. Butler suggests that it would be advantageous to try out the spraying system indicated on a larger area in the Honduras Division, and we trust that this will be possible as details of the results of such an experiment would certainly be of interest and use to us here in Jamaica.

Yours very truly,

Copy to Mr. H. Rowe  
Mr. W. E. Turnbull  
Dr. V. C. Dunlap  
Dr. W. Popenoe ✓

Enclosure.



SEP 30 1941

September 15, 1941

Mr. W. L. Taillon  
Assistant General Manager  
Tela Railroad Company  
La Lima, Honduras

Dear Mr. Taillon:

I refer to Mr. Hislop's letter of September 11th to the writer with copy to you, and Mr. Butler's memorandum of September 9th relative to spraying experiment being carried on in the Jamaica Division.

Please take no action regarding Mr. Butler's suggestion to the effect that a similar experiment be carried out in Honduras on a larger scale. This matter was discussed with Mr. Bradshaw here in Boston today, and he will write you more fully about the Jamaica experiment but, in any event, there is no need of duplicating the experiment until we know more about the results obtained on the forty-five acre experimental block in Jamaica.

Yours very truly

*W. B. Rolland*

Copy to: Mr. T. Bradshaw  
Mr. H. Rowe  
Dr. V. C. Dunlap ✓  
Dr. W. Popenoe

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

VIA AIR MAIL

JAMAICA DIVISION  
KINGSTON, JAMAICA

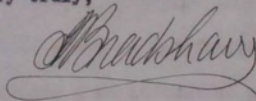
September 29th 1941

Mr. A.A. Pollan,  
Executive Vice-President,  
United Fruit Company,  
Boston, Mass.

Dear Mr. Pollan,

As a matter of possible interest I am forwarding herewith a life history chart of cercospora musae based on observations made by our Research Department in St. Catherine's district, which has been drawn up by Mr. Butler.

Yours very truly,



Copy to Mr. W.E. Turnbull ✓  
Dr. Wilson Popenoe ✓  
Dr. V.C. Dunlap

LIFE HISTORY CHART OF CERCOSPORA MUSAE (ZIMM)

BASED UPON OBSERVATIONS IN

SAINT CATHERINE'S DISTRICT OF JAMAICA

1937 to 1941

Ascospores blow in from distant infection. If the source is a great way off this produces single isolated spots. If comparatively close the infection resembles the discharge of a shot-gun at 30 to 40 feet.

After 25 to 35 days conidia produced on these spots, given favourable weather conditions, re-infect tissues around the original spot. If the original infection occurred on a leaf of a mother plant, conidia from both the original spot and the re-infection drip as a water suspension on to young leaves of followers.

These "burns" produce ascospores at certain periods of the year. Unlike conidia, which we think are carried only as water suspensions the ascospore is windborne. This enables the disease to climb back up to the heartleaves of both the follower and mother-plant. In very heavily infected areas, where many burns are visible, ascospores can be numerous enough to cause mass infection of heart leaves direct from burns on the older leaves. This is cause of heavily infected plant fields.

The heavy increase in infectious material which thus comes into contact with the young leaves of the follower causes mass infections. Given favourable weather conditions re-infection again occurs, this time on the followers as well, and by the time the leaves are 60 to 80 days old these appear as dried up patches, the so-called "Burns".

1943 CROP

UNITED FRUIT COMPANY, JAMAICA

DIVISION

PERIOD COMMENCED: 6.18.41

FARM REPORT—SUGAR

PERIOD ENDED WITH MONTH OF SEPTEMBER 1941

| NO. OF WEEKS<br>FARM                              | SUPERINTENDENCE AND CULTIVATION |                  |                 |                  | HARVESTING   |                      |                 |             | TOTAL COST      |              |                      |                 |                 |  |           |           |
|---|---------------------------------|------------------|-----------------|------------------|--------------|----------------------|-----------------|-------------|-----------------|--------------|----------------------|-----------------|-----------------|--|-----------|-----------|
|   | THIS YEAR                       |                  | LAST YEAR       |                  | THIS YEAR    |                      | LAST YEAR       |             | THIS YEAR       |              | LAST YEAR            |                 |                 |  |           |           |
| Acres<br>Mature                                   | EXPENDITURE                     | Coal per<br>Acre | Acres<br>Mature | Coal per<br>Acre | Acres<br>Cut | Ton Cane<br>Produced | Ton per<br>Acre | EXPENDITURE | Coal per<br>Ton | Acres<br>Cut | Ton Cane<br>Produced | Ton per<br>Acre | Coal per<br>Ton | Farm Reproduction<br>Excludes depreciation | This Year | Last Year |
| <b>BERNARD LUYKE - 37. CANNONVILLE - 16 WEEKS</b> |                                 |                  |                 |                  |              |                      |                 |             |                 |              |                      |                 |                 |  |           |           |
| Congrove Pt.                                      | -                               | 21 16            | -               | -                | -            | -                    | -               | 3 98        | -               | -            | -                    | -               | -               | 24 14                                      | -         | -         |
| Tyloke Park                                       | 64                              | 1 838            | 56              | 29 04            | -            | -                    | -               | 180 20      | -               | -            | -                    | -               | -               | 2 038                                      | 56        | -         |
| Bobby Park  | 64                              | 1 838            | 46              | 29 04            | -            | -                    | -               | 181 47      | -               | -            | -                    | -               | -               | 2 039                                      | 56        | -         |
| Geoban  | -                               | 4 59             | -               | -                | -            | -                    | -               | 9 43        | -               | -            | -                    | -               | -               | 9 43                                       | -         | -         |
| Francis Pt.                                       | 24                              | 532              | 46              | 25 95            | -            | -                    | -               | 98 70       | -               | -            | -                    | -               | -               | 721 16                                     | -         | -         |
| Harold Pw.  | 1000                            | 31 200           | 50              | 31 22            | -            | -                    | -               | 2 983 84    | -               | -            | -                    | -               | -               | 54 083 06                                  | 50        | -         |
| Windsor Pk.                                       | 508                             | 11 804           | 05              | 23 24            | -            | -                    | -               | 1 422 94    | -               | -            | -                    | -               | -               | 13 284 94                                  | 07        | -         |
| Superintendent                                    | -                               | 1 202            | 07              | 72               | -            | -                    | -               | -           | -               | -            | -                    | -               | -               | 1 202 07                                   | -         | -         |
| Live Stock  | -                               | 529              | 01              | 32               | -            | -                    | -               | -           | -               | -            | -                    | -               | -               | 529 01                                     | -         | -         |
| Total Period                                      | 1880                            | 48 124           | 50              | 29 59            | -            | -                    | -               | 4 749 98    | -               | -            | -                    | -               | -               | 53 874 20                                  | -         | -         |
| Total Month                                       | 1880                            | 26 918           | 55              | 6 15             | -            | -                    | -               | 1 654 99    | -               | -            | -                    | -               | -               | 11 873 94                                  | -         | -         |

Rate of Exchange - Month \$4.0500  
+ Parcel \$4.0225

October 3, 1941

(Date)

*Pop...*

FARM REPORT FOR PERIOD ENDED SEPTEMBER 1941 PRODUCT BANANAS

| FARMS                  | ACREAGE     |            | Δ EXPENDITURE                                   |            | PRODUCTION |         |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|------------------------|-------------|------------|---|------------|------------|---------|---------------|-------------|----------------|------------|-------------|--------------------------|
|                        | * IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Grs. PER ACRE |             | Farm Mctc.     | Harvesting | Farm Deprn. |                          |
| <b>ST. CATHERINE</b>   |             |            |   |            |            |         |               |             |                |            |             |                          |
| Watson Grove           | 298         | 298        | 23917   | 2733       | 91766      | 74938   | 251.5         | .817        | .319           | .036       | .108        | 80.36                    |
|                        | 221         | 221        | 15357   | 1056       | 34238      | 22866   | 102.5         | .668        | .672           | .046       | .364        | 69.49                    |
| <b>Congrats Park</b>   | 880         | 880        | 67620   | 7209       | 274555     | 234378  | 266.3         | .854        | .289           | .031       | .144        | 76.84                    |
|                        | 827         | 827        | 55545   | 4858       | 186838     | 123196  | 149.0         | .659        | .451           | .039       | .283        | 67.16                    |
| <b>Teickenham Park</b> | 62          | 62         | 5772  | 599        | 12628      | 11429   | 184.3         | .905        | .308           | .052       | .522        | 93.10                    |
|                        | 50          | 50         | 4736  | 682        | 18023      | 12437   | 248.7         | .690        | .391           | .055       | .454        | 94.72                    |
| <b>Becky Park</b>      | 287         | 287        | 24718   | 4361       | 95846      | 72619   | 272.0         | .759        | .340           | .060       | .308        | 92.58                    |
|                        | 270         | 270        | 22627   | 2865       | 45195      | 27366   | 101.4         | .808        | .827           | .105       | .831        | 83.80                    |
| <b>Half-Way-Trees</b>  | 636         | 636        | 46067   | 6053       | 223014     | 195791  | 307.8         | .878        | .230           | .031       | .172        | 70.86                    |
|                        | 524         | 524        | 32326   | 4007       | 117354     | 82547   | 157.5         | .700        | .392           | .049       | .217        | 61.69                    |
| <b>Bernard Lodge</b>   | 200         | 200        | 18191   | 1916       | 50734      | 44925   | 224.6         | .866        | .405           | .048       | .464        | 90.96                    |
|                        | 210         | 210        | 17559   | 1329       | 45830      | 31621   | 150.6         | .690        | .555           | .048       | .643        | 85.61                    |
| <b>Ooshan</b>          | 371         | 371        | 33125   | 4165       | 136911     | 121129  | 326.5         | .835        | .273           | .034       | .202        | 89.29                    |
|                        | 364         | 364        | 26558   | 2156       | 68064      | 48368   | 132.9         | .711        | .551           | .048       | .528        | 73.24                    |
| <b>Phoenix Park</b>    | 494         | 494        | 39305   | 4981       | 152301     | 130885  | 265.0         | .889        | .300           | .038       | .261        | 79.56                    |
|                        | 444         | 444        | 28728   | 2499       | 78592      | 53654   | 120.8         | .680        | .535           | .047       | .537        | 64.73                    |
| <b>Laurensfield</b>    | 408         | 408        | 36914   | 3158       | 106127     | 92261   | 226.1         | .869        | .400           | .034       | .295        | 20.48                    |
|                        | 392         | 392        | 28521   | 2260       | 73842      | 51373   | 131.1         | .695        | .555           | .049       | .556        | 72.72                    |
| <b>March Pen</b>       | 5           | 5          | 241   | 40         | 1357       | 917     | 183.4         | .675        | .263           | .044       | .516        | 48.80                    |
| <b>Windsor Park</b>    | 3           | 3          | 163   | 35         | 832        | 592     | 197.7         | .713        | .275           | .059       | .327        | 54.33                    |
| Superintendence        |             |            | 14,327  |            |            |         |               |             | .015           |            |             | 3.95                     |
|                        |             |            | 14,161  |            |            |         |               |             | .031           |            |             | 4.29                     |
| Live Stock             |             |            | 3,486   |            |            |         |               |             | .004           |            |             | .96                      |
|                        |             |            | 5,944   |            |            |         |               |             | .013           |            |             | 1.80                     |
| <b>Total Period</b>    | 3624        | 3624       | 312946  | 35280      | 1146071    | 979866  | 270.4         | .855        | .319           | .036       | .215        | 86.33                    |
|                        | 3302        | 3302       | 252182  | 21713      | 668776     | 433428  | 137.3         | .679        | .556           | .048       | .431        | 76.57                    |
| <b>Total Month</b>     | 3493        | 3493       | 36919   | 3678       | 112065     | 102630  | 29.6          | .924        | .376           | .037       | .282        | 11.14                    |
|                        | 3566        | 3566       | 29379   | 3378       | 97429      | 75100   | 20.4          | .750        | .402           | .046       | .298        | 8.19                     |
| <b>ST. THOMAS</b>      |             |            |   |            |            |         |               |             |                |            |             |                          |
| Springfield            | 71          | 71         | 4472  | 372        | 18210      | 14517   | 204.5         | .797        | .308           | .026       | .126        | 62.99                    |
|                        | 72          | 72         | 4482  | 223        | 10560      | 5775    | 80.2          | .547        | .776           | .039       | .361        | 62.25                    |
| <b>Albion</b>          | 337         | 337        | 25518   | 2261       | 76594      | 58033   | 172.2         | .758        | .440           | .039       | .320        | 75.72                    |
|                        | 303         | 303        | 19649   | 944        | 33834      | 22719   | 75.0          | .671        | .865           | .042       | .843        | 84.95                    |
| Superintendence        |             |            | 634   |            |            |         |               |             | .009           |            |             | 1.55                     |
|                        |             |            | 544   |            |            |         |               |             | .019           |            |             | 1.33                     |
| <b>Total Period</b>    | 408         | 408        | 30624   | 2633       | 94804      | 72550   | 177.8         | .765        | .422           | .036       | .283        | 75.06                    |
|                        | 375         | 375        | 24675   | 1167       | 41394      | 23494   | 76.0          | .542        | .866           | .041       | .746        | 85.80                    |
| <b>Total Month</b>     | 322         | 322        | 4004  | 216        | 5743       | 5263    | 14.1          | .916        | .761           | .041       | .563        | 10.76                    |
|                        | 390         | 390        | 2987  | 215        | 7349       | 5545    | 14.2          | .755        | .521           | .039       | .414        | 7.40                     |
| <b>DIVISION TOTALS</b> |             |            |   |            |            |         |               |             |                |            |             |                          |
| Period - 38 Weeks      | 4032        | 4032       | 543470  | 37913      | 1240875    | 1052416 | 261.0         | .849        | .326           | .036       | .220        | 85.19                    |
|                        | 3677        | 3677       | 276557  | 22880      | 713170     | 481922  | 131.1         | .676        | .574           | .047       | .449        | 75.29                    |
| Month - 5 Weeks        | 3665        | 3665       | 42923   | 4094       | 117828     | 108793  | 28.1          | .923        | .595           | .036       | .236        | 11.11                    |
| " - 4 Weeks            | 3976        | 3976       | 32266   | 3593       | 104778     | 78651   | 19.8          | .751        | .410           | .046       | .306        | 8.12                     |

October 9, 1941.  
DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 ‡Use two lines for each farm. Show last year's figures in red.  
 §Report even dollars only eliminating cents.  
 ○Farm Depreciation (include Irrigation and Disease Control)

UNITED FRUIT

COMPANY,

JAMAICA

DIVISION

FARM REPORT FOR PERIOD ENDED

SEPTEMBER 1941

PRODUCT

BANANAS

| FARMS  | ACREAGE     |            | △ EXPENDITURE                                   |            | PRODUCTION   |                      | COUNT RATIO | COST PER COUNT |            |            | COST PER ACRE MTCE. ONLY |
|--|-------------|------------|---|------------|--------------|----------------------|-------------|----------------|------------|------------|--------------------------|
|  | * IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING |              | PER ACRE             |             | Farm Mtce.     | Harvesting | Farm Deprn |                          |
| <u>MEMORANDUM</u>  |             |            |   |            |              |                      |             |                |            |            |                          |
| <u>Cultivation Depreciation and Property Losses for Period</u> |             |            |   |            |              |                      |             |                |            |            |                          |
|  |             |            | <u>Amount</u>                                   |            | <u>Count</u> | <u>Cost per Acre</u> |             |                |            |            |                          |
| St. Catherine  |             |            | 94008   |            | .096         | 25.94                |             |                |            |            |                          |
|  |             |            | 95530   |            | .211         | 28.83                |             |                |            |            |                          |
| St. Thomas   |             |            | 9408  |            | .130         | 23.06                |             |                |            |            |                          |
|  |             |            | 8822  |            | .110         | 23.53                |             |                |            |            |                          |
| Total  |             |            | 103410  |            | .098         | 25.55                |             |                |            |            |                          |
|  |             |            | 104352  |            | .217         | 29.38                |             |                |            |            |                          |
| Rate of Exchange - 1941 Month \$4.0300                         |             |            |   |            |              |                      |             |                |            |            |                          |
| 1941 Period \$4.0195   |             |            |   |            |              |                      |             |                |            |            |                          |
| 1940 Period \$3.8180   |             |            |   |            |              |                      |             |                |            |            |                          |

October 9, 1941.

DATE

\*Average under Irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 △ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (include Irrigation and Disease Control)

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
KINGSTON, JAMAICA

VIA AIR MAIL

September 30th 1941

Mr. W.E. Turabull,  
Assistant Vice-President,  
United Fruit Company,  
La Lima, Honduras.

Dear Mr. Turabull,

I refer to Mr. Hialop's letter to Mr. Pollan of September 11th and Mr. Pollan's letter to Mr. Taillon of September 15th in regard to a Sigatoka experiment we are carrying on in our St. Catherine's district, and about which we have not written previously.

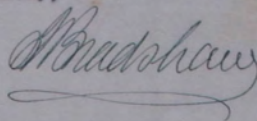
As the result of knowledge accumulated by Mr. Butler, and observations of the experiments being carried out by Mr. Leach of the Jamaica Department of Agriculture, we decided to try an experiment as outlined in Mr. Butler's memorandum of September 9th. For this purpose we used an area of a little less than 50 acres of cultivations which had medium infection and which had been on a three-weekly cycle. This area was thoroughly sprayed weekly for six weeks in succession, the idea being that if we could eliminate practically all infection for this period we would eliminate most of the danger of secondary infection. If this theory were proved to be correct in actual practice it might be possible to spray cultivations on a weekly cycle for six to eight weeks and then discontinue spraying for a very long period - possibly a year.

We commenced spraying the above area week ending May 21st and completed the six weekly sprayings on June 25th, since which date we have discontinued spraying this area entirely. To date, which is fourteen weeks since we last sprayed this area, there is very little slight infection to be seen, and the cultivations are as clean, if not cleaner, than any others in the district, in spite of the fact that we have an area adjoining these cultivations which has to be sprayed on a two-weekly cycle.

Although it is too early to predict that our theory is correct, we are positive that in so far as our St. Catherine's cultivations are concerned we can at least save money by this method of spraying. On the basis of a three-weekly cycle our six sprayings would have taken us till September 17th; we are already two weeks over that period and there are no signs that the area will require spraying for some time. Needless to say, we are keeping a very careful watch on the area in question and Mr. Butler is making a personal inspection of same every week.

Even if this method of spraying proves to be completely successful here in Jamaica it does not follow it would be successful in our other Divisions where climatic conditions are entirely different.

Yours very truly,

A handwritten signature in cursive script, appearing to read "S. Bradshaw", with a decorative flourish underneath.

Copy to Mr. A.A. Pollan  
Mr. Hartley Rowe ✓  
Dr. V.C. Dunlap  
Dr. Wilson Popence ✓



TELA RAILROAD COMPANY  
Office of the General Manager

La Lima, Honduras

October 1, 1941

Mr. A. A. Pollan  
United Fruit Company  
Boston, Mass.

Dear Mr. Pollan:

This will acknowledge receipt of your letter of September 15 that we are to take no action regarding Mr. Butler's suggestion to the effect that a similar experiment be carried out in Honduras as is being done in the Jamaica Division.

We await with interest Mr. Bradshaw's comments covering results on the forty-five acre experimental block in Jamaica.

Yours very truly,

*M. L. Tailley*

cc: Mr. Hartley Rowe  
Mr. T. Bradshaw  
Dr. Wilson Popenoe ✓  
Dr. V. C. Dunlap

1942 CROP

PERIOD COMMENCED: 6.18.41

HERVED FERT

FARM REPORT—SUGAR

JALMOA

DIVISION

PERIOD ENDED WITH MONTH OF OCTOBER 1941

Form 1187 S

| NO. OF WEEKS<br>FARM                                   | SUPERINTENDENCE AND CULTIVATION |                 |       |               |       |          | HARVESTING |             |              |           |          |       | TOTAL COST |              |                  |           |           |         |
|--|---------------------------------|-----------------|-------|---------------|-------|----------|------------|-------------|--------------|-----------|----------|-------|------------|--------------|------------------|-----------|-----------|---------|
|  | THIS YEAR                       |                 |       | LAST YEAR     |       |          | THIS YEAR  |             |              | LAST YEAR |          |       | THIS YEAR  | LAST YEAR    | PER TON          |           |           |         |
| Acres  | EXPENDITURE                     | Coal per Acre   | Acres | Coal per Acre | Acres | Produced | Acres      | EXPENDITURE | Coal per Ton | Acres     | Produced | Acres | Produced   | Coal per Ton | Farm Expenditure | THIS YEAR | LAST YEAR | PER TON |
| <b>HERVED 1941 - 57. OPERATIVE DISTRICT - 20 Weeks</b> |                                 |                 |       |               |       |          |            |             |              |           |          |       |            |              |                  |           |           |         |
| Conoverve Pk.  | 21 16                           | 2 98            |       |               |       |          |            | 2 98        |              |           |          |       |            |              | 24 14            |           |           |         |
| Waldensham Pk.   | 64                              | 2 101 27 32 83  |       |               |       |          |            | 289 42      |              |           |          |       |            |              | 2 530 59         |           |           |         |
| Bustly Park  | 64                              | 2 512 85 39 25  |       |               |       |          |            | 286 25      |              |           |          |       |            |              | 2 751 08         |           |           |         |
| Coabna   | -                               | 4 55            |       |               |       |          |            | 90          |              |           |          |       |            |              | 5 45             |           |           |         |
| Phoenix Park   | 24                              | 685 75 28 57    |       |               |       |          |            | 102 91      |              |           |          |       |            |              | 789 56           |           |           |         |
| March Pen  | 1000                            | 59 020 59 39 02 |       |               |       |          |            | 5 575 56    |              |           |          |       |            |              | 42 596 25        |           |           |         |
| Waldson Park   | 508                             | 15 145 59 25 88 |       |               |       |          |            | 1 802 79    |              |           |          |       |            |              | 14 948 38        |           |           |         |
| Superintendentsoe                                      |                                 | 1 594 67 96     |       |               |       |          |            |             |              |           |          |       |            |              | 1 594 67         |           |           |         |
| Live Stock   |                                 | 566 97 40       |       |               |       |          |            |             |              |           |          |       |            |              | 566 97           |           |           |         |
| Total Period   | 1660                            | 59 783 38 34 00 |       |               |       |          |            | 5 952 89    |              |           |          |       |            |              | 65 706 27        |           |           |         |
| Total Month  | 1660                            | 10 627 08 3 40  |       |               |       |          |            | 1 282 90    |              |           |          |       |            |              | 11 859 98        |           |           |         |

Rate of Exchange - Month \$4.0500  
Period \$4.0220

NOTED BY: G. 1941

(Date)

FARM REPORT FOR PERIOD ENDED

OCTOBER 1941

PRODUCT AVOCADOS

| FARMS                  | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |         |               | COUNT RATIO | COST PER COUNT |            |             | COST PER ACRE MTCE. ONLY |
|------------------------|-----------|------------|---|------------|------------|---------|---------------|-------------|----------------|------------|-------------|--------------------------|
|                        | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts  | Ots. PER ACRE |             | Farm Mcc.      | Harvesting | Farm Deprn. |                          |
| <u>ST. CATHERINE</u>   |           |            |   |            |            |         |               |             |                |            |             |                          |
| Watson Grove           | 298       | 298        | 26341   | 2939       | 98084      | 91135   | 272.3         | .627        | .325           | .036       | .111        | 68.59                    |
|                        | 224       | 224        | 16799   | 1268       | 39174      | 27304   | 121.9         | .697        | .615           | .046       | .340        | 75.00                    |
| Congreve Park          | 836       | 836        | 74442   | 7614       | 284622     | 244055  | 291.9         | .857        | .305           | .031       | .152        | 89.05                    |
|                        | 851       | 851        | 61832   | 5434       | 305326     | 138719  | 166.9         | .676        | .446           | .039       | .279        | 74.61                    |
| Twickenham Park        | 60        | 60         | 6280  | 620        | 12943      | 11729   | 195.5         | .908        | .535           | .053       | .561        | 104.67                   |
|                        | 51        | 51         | 5136  | 749        | 18961      | 13148   | 257.8         | .697        | .391           | .057       | .478        | 100.71                   |
| Bushy Park             | 267       | 267        | 28015   | 4536       | 98934      | 75203   | 281.7         | .760        | .373           | .062       | .340        | 104.93                   |
|                        | 267       | 267        | 34885   | 3301       | 52127      | 33003   | 124.4         | .637        | .750           | .099       | .761        | 93.71                    |
| Half-Way-Tree          | 624       | 624        | 49712   | 6372       | 232262     | 204757  | 328.1         | .882        | .243           | .031       | .182        | 79.67                    |
|                        | 531       | 531        | 35611   | 4485       | 130840     | 93515   | 176.1         | .715        | .381           | .048       | .214        | 87.06                    |
| Bernard Lodge          | 197       | 197        | 20079   | 2055       | 52659      | 46756   | 237.4         | .888        | .429           | .044       | .493        | 101.92                   |
|                        | 212       | 212        | 19351   | 1515       | 51170      | 36130   | 170.4         | .706        | .336           | .042       | .332        | 91.38                    |
| Goshen                 | 361       | 361        | 36435   | 4528       | 143510     | 127606  | 352.5         | .899        | .286           | .035       | .211        | 100.89                   |
|                        | 368       | 366        | 29373   | 2483       | 77173      | 56353   | 154.0         | .730        | .521           | .044       | .302        | 80.26                    |
| Phoenix Park           | 489       | 489        | 43981   | 5316       | 160536     | 138691  | 283.6         | .864        | .317           | .058       | .273        | 69.94                    |
|                        | 448       | 448        | 32422   | 2970       | 90652      | 62422   | 141.7         | .700        | .612           | .047       | .552        | 72.60                    |
| Laurensfield           | 394       | 394        | 39937   | 3346       | 109617     | 95488   | 242.4         | .871        | .418           | .035       | .314        | 101.36                   |
|                        | 396       | 396        | 31426   | 2583       | 91760      | 58043   | 146.6         | .710        | .541           | .044       | .546        | 79.33                    |
| March Pen              | 5         | 5          | 312   | 47         | 1549       | 1036    | 207.2         | .669        | .301           | .045       | .657        | 62.40                    |
| Windsor Park           | 3         | 3          | 230   | 35         | 832        | 592     | 197.3         | .712        | .389           | .059       | .469        | 76.67                    |
| Superintendence        |           |            | 15,708  |            |            |         |               |             | .015           |            |             | 4.44                     |
|                        |           |            | 15,382  |            |            |         |               |             | .031           |            |             | 4.75                     |
| Live Stock             |           |            | 3,768   |            |            |         |               |             | .004           |            |             | 1.07                     |
|                        |           |            | 6,119   |            |            |         |               |             | .018           |            |             | 1.84                     |
| Total Period           | 3534      | 3534       | 345,240   | 37,508     | 1195555    | 1027056 | 290.6         | .859        | .336           | .037       | .225        | 97.69                    |
|                        | 3326      | 3326       | 278,897   | 24,766     | 747103     | 519697  | 156.3         | .696        | .336           | .048       | .418        | 63.85                    |
| Total Month            | 2723      | 2723       | 32,394  | 2,228      | 49424      | 47192   | 17.3          | .954        | .686           | .047       | .495        | 11.90                    |
|                        | 3542      | 3542       | 26,714  | 3,054      | 78327      | 66469   | 18.8          | .249        | .402           | .045       | .322        | 7.54                     |
| <u>ST. THOMAS</u>      |           |            |   |            |            |         |               |             |                |            |             |                          |
| Springfield            | 64        | 64         | 4472  | 372        | 16210      | 14517   | 226.6         | .797        | .508           | .026       | .150        | 69.56                    |
|                        | 74        | 74         | 4921  | 285        | 13957      | 8231    | 111.2         | .590        | .605           | .035       | .388        | 67.21                    |
| Albion                 | 327       | 327        | 28611   | 2372       | 77606      | 58944   | 180.3         | .760        | .489           | .040       | .352        | 86.11                    |
|                        | 294       | 294        | 21474   | 1037       | 38626      | 26920   | 91.6          | .697        | .798           | .030       | .788        | 73.04                    |
| Superintendence        |           |            | 689   |            |            |         |               |             | .009           |            |             | 1.76                     |
|                        |           |            | 611   |            |            |         |               |             | .017           |            |             | 1.22                     |
| Total Period           | 391       | 391        | 33972   | 2744       | 95816      | 73461   | 187.9         | .767        | .482           | .037       | .312        | 86.08                    |
|                        | 768       | 768        | 27066   | 1373       | 52563      | 35151   | 95.5          | .668        | .770           | .039       | .370        | 73.32                    |
| Total Month            | 241       | 241        | 3343  | 111        | 1012       | 911     | 3.8           | .900        | 2.675          | .122       | 2.602       | 13.62                    |
|                        | 301       | 301        | 2392  | 205        | 2189       | 6657    | 22.1          | .213        | .359           | .031       | .345        | 7.25                     |
| <u>DIVISION TOTALS</u> |           |            |   |            |            |         |               |             |                |            |             |                          |
| Period - 43 Weeks      | 3925      | 3925       | 379212  | 40252      | 1291371    | 1100519 | 260.4         | .852        | .345           | .037       | .224        | 96.61                    |
|                        | 2694      | 2694       | 201963  | 26139      | 799866     | 555068  | 153.3         | .696        | .351           | .047       | .434        | 82.83                    |
| Month - 4 Weeks        | 2964      | 2964       | 39742   | 2339       | 50495      | 48103   | 15.2          | .953        | .743           | .049       | .535        | 15.06                    |
|                        | 3843      | 3843       | 29106   | 3259       | 86316      | 73126   | 19.0          | .845        | .392           | .045       | .430        | 7.23                     |

November 6, 1941.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 ‡Use two lines for each farm. Show last year's figures in red.  
 §Report even dollars only eliminating cents.  
 ©Farm Depreciation (include Irrigation and Disease Control)

| FARMS   | ACREAGE   |            | EXPENDITURE                                     |                               | PRODUCTION   |  |          | COUNT RATIO | COST PER COUNT |            |           | COST PER ACRE MTCE. ONLY |
|---|-----------|------------|---|-------------------------------|--------------|--|----------|-------------|----------------|------------|-----------|--------------------------|
|   | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING                    |              |  | PER ACRE |             | Farm Mlce.     | Harvesting | Farm Dep. |                          |
| <u>MEMORANDUM</u>   |           |            |   |                               |              |  |          |             |                |            |           |                          |
| <u>CULTIVATION, DEPRECIATION &amp; PROPERTY LOSSES FOR PERIOD</u> |           |            |   |                               |              |  |          |             |                |            |           |                          |
|   |           |            | Amount  | Cost                          | Cost         |  |          |             |                |            |           |                          |
|   |           |            | Per Ct.   | Per Acre                      |              |  |          |             |                |            |           |                          |
| St. Catharines  |           |            | 105,655   | .103                          | 29.90        |  |          |             |                |            |           |                          |
|   |           |            | 108,124   | .008                          | 33.51        |  |          |             |                |            |           |                          |
| St. Thomas  |           |            | 12,062  | .164                          | 30.85        |  |          |             |                |            |           |                          |
|   |           |            | 9,810   | .279                          | 26.66        |  |          |             |                |            |           |                          |
|   |           |            | <u>117,717</u>                                  | <u>.107</u>                   | <u>29.99</u> |  |          |             |                |            |           |                          |
|   |           |            | <u>117,934</u>                                  | <u>.212</u>                   | <u>31.93</u> |  |          |             |                |            |           |                          |
|   |           |            |   | Rate of Exchange = 1941 Month | \$4.0300     |  |          |             |                |            |           |                          |
|   |           |            |   | 1941 Period                   | \$4.0129     |  |          |             |                |            |           |                          |
|   |           |            |   | 1940 Period                   | \$5.6387     |  |          |             |                |            |           |                          |

November 6, 1941.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 △ Report even dollars only eliminating cents.  
 ○ Farm Depreciation (Include Irrigation and Disease Control)

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

22nd October, 1941.

VIA AIR MAIL

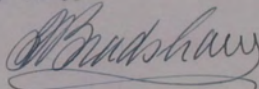
Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Pollan,

I refer to my letter to Mr. Turnbull dated September 30th, and previous correspondence in regard to Sigatoka experiment we have been carrying out on about 50 acres of our St. Catherine banana cultivations. I inspected the experimental plot yesterday and find that there is now considerable infection throughout the entire area and we consider that we will be running considerable risk of losing this field if we do not resume spraying without delay. We are, therefore, putting back this area on the regular 3-weekly cycle.

I might mention that there is a considerable increase of the disease throughout all our St. Catherine properties, and the majority of our cultivations are on a 2-weekly cycle with the full strength Bordeaux mixture (5-5-50).

Yours very truly,



Copy to Mr. Hartley Rowe  
Mr. W. E. Turnbull  
Dr. W. Popenoe  
Dr. V. C. Dunlap

NOV 3 1941

# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

14th November, 1941.

VIA AIR MAIL

Mr. Hartley Rowe,  
Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Rowe,

As a matter of interest I am enclosing herewith  
copy of a memorandum by Mr. Butler in regard to Dr. Wardlaw's  
comments on Panama Disease contained in the publication forward-  
ed with your letter of October 24th.

Yours very truly,

*Bradshaw*

Copy to Mr. A. A. Pollan  
Mr. W. E. Turnbull  
Dr. W. Popenoe ✓  
Dr. V. C. Dunlap

Enclosure.

C O P Y.

Cedar Grove,  
Gregory Park P/O.,  
November 13th., 1941.

Thomas Bradshaw Esq.,  
Div. Manager,  
United Fruit Company,  
Kingston.

Mr. Bradshaw:

I am returning Dr. Wardlaw's paper on "Cultivation & Diseases of the Banana in Central America". In light of our own experience with new banana areas & Panama Disease, I found his comments on page 22, 23 & 24 of interest, particularly regarding the "pre cultivation dispersal of the pathogen during periodic flooding" reported from La Ceiba. This is apparently what has happened on our cane farm soils, and also at Grove Farm, although as you know I was prepared to doubt it at first. Wardlaw's comments & theories are interesting, but, emphasise only too clearly that at present we know very little about the behaviour of *Fusarium cubense*, and some of our theories which had appeared to be fairly well substantiated, like the pH. theory & the resisting qualities of the heavier soil types are now open to argument. To me, this is a serious outlook. Our agricultural procedures today are based upon a heavy investment per acre for equipment, and differ substantially from the old time methods whereby bananas could be brought to production for \$100 per acre or less. Had we been faced with the same investment costs that are usual in Central America today in our plantings at Grove Farm, we should have gone deeply into the red. Yet, by all the soil tests that we know anything about, Grove should have been highly resistant; soil being a clay loam soil of high pH. Actually it grew some of the best quality bananas ever produced in Jamaica, and remained in active production less than 3 years.

Of course, if the flood following method of soil sterilization works out successfully, the Company would have fewer worries, but, there is still the possibility of losing large sums of money in new land development, if Panama Disease makes serious inroads within 2 years of planting. If some simple system could be found for determining the presence and density of *Fusarium cubense* in

(2)

the soil, and which could be carried out by any one of average intelligence, it might save us considerable money. A promising one, is that of using the seed from susceptible seed bearing types & attempting to grow them in pots or boxes of the soil under question. Cultures from plants which died would soon reveal presence or absence of *Fusarium cubense*.

Yours sincerely,

(Sgd.) Alfred F. Butler.



# UNITED FRUIT COMPANY

GENERAL OFFICES, ONE FEDERAL STREET, BOSTON, MASS.

INLAND TELEGRAPH ADDRESS  
"SANANAB"

THOMAS BRADSHAW  
MANAGER

JAMAICA DIVISION  
Kingston, JAMAICA

25th November, 1941.

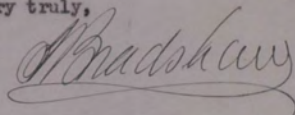
VIA AIR MAIL

Mr. A. A. Pollan,  
Executive Vice President,  
United Fruit Company,  
Boston. Mass.

Dear Mr. Pollan,

In regard to the Leaf Spot campaign - I am informed that the Government Board proposes to appoint two additional supervisors for this work, and to carry on an intensive campaign in one or two districts of the Island in line with the procedure adopted by Mr. Leach in the experiments he has been carrying on during the past year. This treatment consists of spraying of the heart leaf and the underside of the second leaf each week, and it is the intention of Government to endeavor to get growers to follow this procedure for from six to eight weeks and then suspend spraying operations until cultivations are infected to a degree where it is considered necessary to re-commence spraying operations.

Yours very truly,



Copy to Mr. W. E. Turnbull  
Dr. V. C. Dunlap  
Dr. W. Popenoe ✓

1942 CROP  
PERIOD COMMENCED: 6.16.41

UNITED FRUIT  
FARM REPORT—SUGAR  
COMPANY,

JAMAICA

DIVISION

PERIOD ENDED WITH MONTH OF Feb. 1942

| NO. OF WEEKS<br>FARM                                      | SUGAR YIELD AND DISTRIBUTION |                  |                 |                  |              |                   | HARVESTING        |                   |          |                 |       |                   | TOTAL COST        |                 |                                     |     |     |      |    |
|---|------------------------------|------------------|-----------------|------------------|--------------|-------------------|-------------------|-------------------|----------|-----------------|-------|-------------------|-------------------|-----------------|-------------------------------------|-----|-----|------|----|
|   | THIS YEAR                    |                  |                 | LAST YEAR        |              |                   | THIS YEAR         |                   |          | LAST YEAR       |       |                   | THIS YEAR         |                 | COST PER TON                        |     |     |      |    |
| Acres<br>Mature   | HEPWHITE                     | Cost per<br>Acre | Acres<br>Mature | Cost per<br>Acre | Acres<br>Cut | Acres<br>Produced | Acres<br>Produced | Acres<br>Produced | HEPWHITE | Cost per<br>Ton | Acres | Acres<br>Produced | Acres<br>Produced | Cost per<br>Ton | Pure Sugars<br>Kindred & Impurities | Ton | Ton |      |    |
| <b>WARD AND LORDE - ST. CATHERINE DISTRICT - 37 weeks</b> |                              |                  |                 |                  |              |                   |                   |                   |          |                 |       |                   |                   |                 |                                     |     |     |      |    |
| Georgeville Pk.   | 21                           | 15               |                 |                  |              |                   |                   |                   | 2        | 98              |       |                   |                   |                 | 24                                  | 14  |     |      |    |
| Yulet. Park   | 2                            | 787              | 90              |                  |              |                   |                   |                   | 214      | 66              |       |                   |                   |                 | 5                                   | 022 | 86  |      |    |
| Bushy Park  | 64                           | 5                | 743             | 88               | 58           | 49                |                   |                   | 4        | 478             | 85    |                   |                   |                 | 4                                   | 478 | 85  |      |    |
| Berr. Lodge   | 10                           | 22               | 99              | 2                | 30           |                   |                   |                   | 588      | 29              |       |                   |                   |                 | 5                                   | 43  |     |      |    |
| Goshen  | 4                            | 53               |                 |                  |              |                   |                   |                   | 90       |                 |       |                   |                   |                 | 1                                   | 803 | 44  | 8.53 |    |
| Phoenix Park  | 40                           | 960              | 61              | 94               | 02           |                   |                   |                   | 622      | 83              |       |                   |                   |                 | 1                                   | 731 | 46  | 5.93 |    |
| Lawrencefld.  | 13                           | 70               | 89              | 5                | 45           |                   |                   |                   | 660      | 57              |       |                   |                   |                 | 71                                  | 187 | 26  | 5.81 |    |
| March Pen   | 1461                         | 95               | 851             | 88               | 26           | 23                |                   |                   | 15       | 335             | 44    |                   |                   |                 | 24                                  | 077 | 30  | 6.01 |    |
| Windsor Park  | 601                          | 17               | 858             | 12               | 29           | 71                |                   |                   | 6        | 219             | 18    |                   |                   |                 | 3                                   | 036 | 95  | 1.17 |    |
| Suptee.   |                              | 1                | 826             | 95               | 1            | 39                |                   |                   |          |                 |       |                   |                   |                 | 1                                   | 262 | 01  | 1.07 |    |
| Live Stock  |                              | 1                | 826             | 01               |              |                   |                   |                   |          |                 |       |                   |                   |                 |                                     |     |     |      |    |
| Total Period  | 2189                         | 85               | 850             | 20               | 39           | 11                |                   |                   | 862      | 18              | 376   | 66.1              |                   |                 | 24                                  | 361 | 19  | 1    | 33 |
| Total Month   | 2189                         | 6                | 602             | 44               | 3            | 02                |                   |                   | 242      | 18              | 376   | 49.1              |                   |                 | 18                                  | 102 | 64  |      | 82 |

Note of Exchange + Month  
Period 4.0300  
4.0245

March 9, 1942

(D-4)

*St. Catherine*

(187 (8-40))

UNITED FRUIT COMPANY, JAMAICA DIVISION

16

FARM REPORT FOR PERIOD ENDED FEBRUARY 1942

PRODUCT BANANAS

| FARMS                  | ACREAGE   |            | EXPENDITURE                                     |            | PRODUCTION |        |               | COUNT RATIO | COST PER COUNT |            |            | COST PER ACRE MTCE. ONLY |
|------------------------|-----------|------------|---|------------|------------|--------|---------------|-------------|----------------|------------|------------|--------------------------|
|                        | IRRIGATED | IN BEARING | Farm Maintenance and Disease and Insect Control | HARVESTING | Stems      | Counts | Cts. PER ACRE |             | Farm Mice.     | Harvesting | Farm Deprn |                          |
| <b>ST. CATHERINE</b>   |           |            |   |            |            |        |               |             |                |            |            |                          |
| Robert Grove           | 292       | 292        | 5172  | 437        | 11117      | 10609  | 36.3          | .954        | .488           | .041       | .140       | 17.71                    |
|                        | 292       | 292        | 4920  | 359        | 23962      | 19685  | 65.8          | .832        | .250           | .033       | .077       | 16.45                    |
| Congreve Park          | 437       | 437        | 8288  | 833        | 20941      | 19222  | 44.0          | .918        | .431           | .043       | .226       | 18.97                    |
|                        | 861       | 861        | 11984   | 1055       | 36651      | 30895  | 35.8          | .845        | .388           | .034       | .214       | 15.92                    |
| Brickendon Park        |           |            | 109   | 17         | 349        | 324    |               |             | .928           | .336       | .052       | 2.981                    |
|                        | 63        | 63         | 1139  | 90         | 838        | 806    | 12.8          | .962        | .143           | .112       | .237       | 16.08                    |
| Bushy Park             | 169       | 160        | 4278  | 478        | 3307       | 2627   | 16.4          | .794        | 1.628          | .182       | 1.083      | 26.74                    |
|                        | 229       | 229        | 4053  | 448        | 5691       | 4706   | 20.6          | .827        | .861           | .095       | .812       | 17.70                    |
| Half-way Tree          | 514       | 514        | 8257  | 1100       | 27325      | 26578  | 51.7          | .973        | .311           | .041       | .225       | 16.06                    |
|                        | 637       | 637        | 8998  | 983        | 32604      | 28961  | 45.5          | .888        | .311           | .034       | .223       | 16.13                    |
| Bernard Lodge          | 139       | 139        | 2767  | 196        | 2489       | 2361   | 17.0          | .956        | 1.172          | .083       | 1.437      | 19.91                    |
|                        | 214       | 214        | 4173  | 284        | 4848       | 4327   | 19.8          | .872        | .987           | .067       | .991       | 19.50                    |
| Goshen                 | 269       | 269        | 6558  | 777        | 16194      | 15299  | 56.9          | .948        | .429           | .051       | .271       | 24.36                    |
|                        | 380       | 380        | 5716  | 919        | 26617      | 23265  | 31.2          | .888        | .289           | .040       | .211       | 17.87                    |
| Phoenix Park           | 421       | 421        | 7726  | 810        | 14087      | 13031  | 31.0          | .925        | .593           | .062       | .416       | 18.38                    |
|                        | 482       | 482        | 7158  | 778        | 16116      | 14946  | 31.0          | .825        | .480           | .052       | .449       | 14.87                    |
| Laurencefield          | 245       | 245        | 5739  | 299        | 7157       | 6570   | 26.8          | .918        | .874           | .048       | .566       | 23.42                    |
|                        | 486       | 486        | 7372  | 480        | 11328      | 9592   | 22.5          | .847        | .789           | .050       | .530       | 17.77                    |
| March Pen              | 9         | 9          | 91  |            |            |        |               |             |                |            |            | 10.11                    |
| Windsor Park           | 6         | 6          | 68  |            |            |        |               |             |                |            |            | 11.33                    |
| Superintendence        |           |            | 2287  |            |            |        |               |             | .024           |            |            | .92                      |
|                        |           |            | 3055  |            |            |        |               |             | .022           |            |            | .85                      |
| Live Stock             |           |            | 493   |            |            |        |               |             | .005           |            |            | .20                      |
|                        |           |            | 601   |            |            |        |               |             | .004           |            |            | .17                      |
| <b>Total Period</b>    | 2492      | 2492       | 51833   | 4947       | 102946     | 96621  | 36.8          | .939        | .536           | .051       | .342       | 20.80                    |
|                        | 3591      | 3591       | 60379   | 5876       | 160737     | 137043 | 38.2          | .853        | .441           | .041       | .300       | 16.21                    |
| <b>Total Month</b>     | 2437      | 2437       | 24227   | 2105       | 48049      | 40007  | 16.4          | .951        | .606           | .055       | .413       | 9.84                     |
|                        | 3570      | 3570       | 31223   | 2890       | 91610      | 77870  | 21.8          | .848        | .402           | .037       | .267       | 8.75                     |
| <b>ST. THOMAS</b>      |           |            |   |            |            |        |               |             |                |            |            |                          |
| Springfield            | 85        | 85         | 1076  | 65         | 3758       | 2705   | 31.8          | .731        | .398           | .031       | .150       | 12.66                    |
| Albion                 | 241       | 241        | 4339  | 218        | 4739       | 4254   | 17.7          | .898        | 1.020          | .051       | .745       | 12.00                    |
|                        | 254       | 254        | 4141  | 277        | 5794       | 4665   | 18.4          | .805        | .888           | .059       | .660       | 16.30                    |
| Superintendence        |           |            | 100   |            |            |        |               |             | .024           |            |            | .42                      |
|                        |           |            | 132   |            |            |        |               |             | .018           |            |            | .30                      |
| <b>Total Period</b>    | 241       | 241        | 4439  | 218        | 4739       | 4254   | 17.7          | .898        | 1.044          | .051       | .745       | 12.42                    |
|                        | 339       | 339        | 5349  | 362        | 9346       | 7370   | 21.7          | .772        | .726           | .049       | .485       | 15.78                    |
| <b>Total Month</b>     | 241       | 241        | 2464  | 125        | 2306       | 2121   | 8.8           | .920        | 1.162          | .059       | .747       | 10.22                    |
|                        | 348       | 348        | 2630  | 128        | 4420       | 3439   | 9.9           | .766        | .768           | .052       | .629       | 7.56                     |
| <b>DIVISION TOTALS</b> |           |            |   |            |            |        |               |             |                |            |            |                          |
| Period - 8 Weeks       | 2733      | 2733       | 56272   | 5165       | 107895     | 100875 | 36.2          | .937        | .558           | .051       | .359       | 20.82                    |
|                        | 3930      | 3930       | 57726   | 6038       | 170283     | 144413 | 38.7          | .842        | .425           | .042       | .290       | 16.72                    |
| Month - 4 Weeks        | 2678      | 2678       | 26691   | 2230       | 44355      | 42128  | 15.7          | .950        | .634           | .053       | .430       | 9.97                     |
|                        | 3918      | 3918       | 33853   | 3088       | 96100      | 81109  | 20.7          | .844        | .417           | .038       | .275       | 8.31                     |

March 5 1942.

DATE

\*Average under irrigation included in "In Bearing" figures.  
 †Counts, Pounds, etc.  
 Use two lines for each farm. Show last year's figures in red.  
 ‡Report even dollars only eliminating cents.  
 ©Farm Depreciation (include Irrigation and 1 season Control)

