



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 409

MAPLE SYRUP

NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL
Chief Analyst.

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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 409

MAPLE SYRUP

OTTAWA, July 15, 1918.

GEO. W. TAYLOR, Esq.,
Asst. Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 150 samples of Maple Syrup, purchased by our inspectors in April and May of the present year.

The work of analysis has been performed by Mr. A. Valin of this staff, with the co-operation of Miss S. E. Wright. Mr. Valin has, during many years, made a special study of Maple Products and has introduced many improvements in the methods of analysis; so that his results may be accepted with great confidence in their accuracy.

In addition to the principal table which shows the origin of these samples and the results of analysis, in detail, Mr. Valin furnishes subsidiary tables in which are arranged the same samples, according to classified findings.

In table A are arranged such samples as not merely meet the minimum legal values fixed by the sixth schedule of the Adulteration Act, but also meet standard requirements as suggested by Bulletin No. 466, Department of Agriculture, Washington. The Bulletin referred to contains the results of a study of 481 samples of maple syrup, examined by Mr. A. H. Bryan in 1910, 1911 and 1912; and, his conclusions are to the effect that genuine maple syrup should show, (calculated to a dry basis) :—

| | |
|-----------------------|-------------------------------|
| Total ash..... | 0.77 per cent. |
| Insoluble ash..... | 0.23 " " |
| Lead number..... | 1.85 (Winton). |
| " "..... | 2.60 (Canadian, approximate). |
| Malic acid value..... | 0.60 |

Canadian standards were fixed on the basis of examination of 456 samples in 1911 (Bulletin No. 228) and require:

| | |
|--------------------|------------------|
| Total ash..... | 0.60 per cent. |
| Insoluble ash..... | 0.12 " " |
| Lead number..... | 1.20 (Winton). |
| " "..... | 1.70 (Canadian). |

The samples arranged in Table A may be regarded as genuine maple syrup which have not been tampered with.

Samples arranged in Table B give results which meet present legal requirements. They must therefore be held to be legally genuine; but they cannot be regarded, in all cases, as above suspicion of having been more or less tampered with. They fail, in every instance, to meet the suggested constants for maple syrup as written by Mr. Bryan. (Bulletin 466, Dept. of Agriculture, U. S. A.).

Samples arranged in Table C are adulterated under the requirements of schedule 6 of the Adulteration Act.

It will be noted that several samples contain more than 35 per cent of water; in a few cases the water constitutes more than 40 per cent of the weight of the product. Standard maple syrup should weigh 13 pounds 3 ounces per Imperial gallon. The samples in question weigh decidedly less than this.

Investigation in detail has convinced me that, in nearly all of the cases referred to, the presence of excess water is to be accounted for, as due to inexperience in manipulation, lack of proper means of noting density or other reasons quite unconnected with any intent to defraud.

I would therefore respectfully suggest that the Department issue this report as a warning, so far as these samples are concerned, and exercise leniency, in their regard, while emphasizing the fact that the presence of more than 35 per cent water in maple syrup constitutes legal adulteration; and that, unless the warning be found effective, subsequent cases of the kind will be dealt with strictly according to law.

I beg to recommend publication of this report as Bulletin No. 409.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

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TABLE A

| Sample. | Water. % | Solids. % | Results on Dry Basis. | | Remarks. |
|---------|-------------|--------------|---------------------------|------|------------------|
| | | | Lead Number. Canadian. | Ash. | |
| 84166 | 36.51 | 63.49 | 4.94 | 1.47 | |
| 52902 | 27.98 | 72.02 | 2.52 | 0.83 | |
| 52904 | 33.58 | 66.42 | 3.50 | 1.04 | |
| 52906 | 30.57 | 69.43 | 3.30 | 1.10 | |
| 52907 | 36.63 | 63.37 | 4.12 | 1.15 | |
| 52908 | 34.43 | 65.57 | 3.94 | 1.34 | |
| 52910 | 32.98 | 67.02 | 3.36 | 1.11 | |
| 84455 | 35.98 | 64.02 | 3.96 | 1.00 | |
| 84105 | 41.22 | 58.78 | 4.80 | 1.64 | Excess of water. |
| 84106 | 33.88 | 66.12 | 3.70 | 1.28 | |
| 84107 | 37.68 | 62.32 | 4.32 | 1.39 | |
| 84108 | 33.45 | 66.55 | 2.64 | 0.96 | |
| 83411 | 39.53 | 60.47 | 2.68 | 0.92 | |
| 83413 | 32.53 | 67.47 | 3.82 | 1.11 | |
| 83414 | 30.48 | 69.52 | 3.02 | 1.00 | |
| 83416 | 31.68 | 68.32 | 3.80 | 1.17 | |
| 80584 | 34.71 | 65.29 | 4.10 | 1.07 | |
| 80588 | 34.71 | 65.29 | 4.58 | 1.02 | |
| 80622 | 34.96 | 65.04 | 3.84 | 1.07 | |
| 84804 | 34.21 | 65.79 | 4.56 | 1.19 | |
| 84807 | 34.71 | 65.29 | 3.56 | 0.98 | |
| 84808 | 33.41 | 66.59 | 4.12 | 1.23 | |
| 84810 | 41.71 | 58.29 | 4.48 | 1.08 | Excess of water. |
| 84812 | 30.21 | 69.79 | 3.98 | 1.06 | |
| 84818 | 33.06 | 66.94 | 6.18 | 1.27 | |
| 84820 | 32.46 | 67.54 | 4.48 | 1.33 | |
| 79964 | 34.71 | 65.29 | 3.80 | 1.04 | |
| 79966 | 31.66 | 68.34 | 3.56 | 1.14 | |
| 79967 | 37.76 | 62.24 | 3.64 | 1.12 | |
| 79968 | 40.91 | 59.09 | 3.48 | 1.11 | Excess of water. |
| 79969 | 31.16 | 68.84 | 4.52 | 1.09 | |
| 79970 | 36.41 | 63.59 | 4.44 | 1.13 | |
| 79971 | 33.11 | 66.89 | 3.58 | 1.27 | |
| 79972 | 35.81 | 64.19 | 3.94 | 1.07 | |
| 79973 | 38.21 | 61.79 | 4.58 | 1.24 | |
| 80019 | 32.29 | 67.71 | 4.00 | 1.15 | |
| 80020 | 39.64 | 60.36 | 4.14 | 1.12 | Excess of water. |
| 81232 | 42.14 | 57.86 | 3.58 | 1.12 | |
| 84437 | 31.49 | 68.51 | 4.62 | 1.06 | " " |
| 84438 | 32.69 | 67.31 | 4.18 | 0.99 | |
| 81242 | 37.79 | 62.21 | 4.02 | 1.06 | |
| 84444 | 31.59 | 68.41 | 3.98 | 1.05 | |
| 81245 | 33.86 | 66.14 | 3.80 | 1.09 | |
| 84447 | 37.09 | 62.91 | 4.22 | 1.06 | |
| 84449 | 37.54 | 62.46 | 3.54 | 1.13 | |
| 84426 | 34.71 | 65.29 | 4.06 | 0.98 | |
| 84427 | 31.68 | 68.32 | 4.16 | 1.09 | |
| 84430 | 30.96 | 69.04 | 3.68 | 1.07 | |
| 84431 | 31.41 | 68.59 | 3.62 | 0.88 | |
| 81432 | 37.36 | 62.64 | 4.44 | 1.00 | |
| 84433 | 34.31 | 65.69 | 4.02 | 1.15 | |
| 80569 | 34.06 | 65.94 | 3.36 | 1.24 | |
| 80586 | 33.41 | 66.59 | 3.72 | 0.82 | |
| 80597 | 37.51 | 62.49 | 3.84 | 0.99 | |
| 84428 | 32.69 | 67.31 | 4.24 | 0.96 | |
| 84822 | 36.91 | 63.09 | 3.98 | 1.15 | |
| 84827 | 40.41 | 59.59 | 5.44 | 1.19 | Excess of water. |
| 8105 | 33.11 | 66.89 | 4.14 | 0.98 | |
| 8106 | 38.21 | 61.79 | 5.24 | 1.12 | |
| 8107 | 32.21 | 67.79 | 4.78 | 1.25 | |
| 70489 | 30.96 | 69.04 | 5.34 | 1.27 | |
| 70490 | 30.96 | 69.04 | 4.48 | 1.04 | |
| 70491 | 31.51 | 68.49 | 4.32 | 1.01 | |
| 70492 | 31.16 | 68.84 | 4.84 | 1.24 | |
| 81450 | 33.83 | 66.17 | 4.94 | 1.28 | |
| 84451 | 34.33 | 65.67 | 5.62 | 1.29 | |
| 84452 | 31.07 | 68.93 | 5.74 | 1.24 | |
| 84453 | 33.13 | 66.87 | 3.42 | 1.10 | |
| 84175 | 31.82 | 68.18 | 3.30 | 1.31 | |

TABLE A—Continued.

| Sample. | Water. % | Solids. % | Results on Dry Basis. | | Remarks. |
|---------|-------------|--------------|---------------------------|------|------------------|
| | | | Lead Number. Canadian. | Ash. | |
| 84176 | 33.33 | 66.67 | 4.26 | 1.16 | |
| 84178 | 33.33 | 66.67 | 4.44 | 1.19 | |
| 84179 | 29.73 | 70.27 | 3.60 | 1.22 | |
| 84181 | 32.13 | 67.87 | 3.30 | 0.74 | |
| 84182 | 38.13 | 61.87 | 3.00 | 0.94 | |
| 84184 | 35.23 | 64.77 | 3.80 | 1.03 | |
| 84100 | 32.58 | 67.42 | 3.76 | 1.12 | |
| 70488 | 33.73 | 66.27 | 4.48 | 1.27 | |
| 8103 | 36.08 | 63.92 | 5.40 | 1.40 | |
| 8104 | 39.68 | 60.32 | 4.78 | 1.32 | Excess of water. |
| 68579 | 32.43 | 67.57 | 3.18 | 0.97 | |
| 68580 | 33.33 | 66.67 | 3.26 | 0.91 | |
| 84102 | 40.84 | 59.16 | 3.84 | 1.26 | Excess of water. |
| 84103 | 33.79 | 66.21 | 3.18 | 1.01 | |
| 84104 | 31.34 | 68.66 | 3.54 | 0.93 | |
| 84154 | 31.34 | 68.66 | 3.24 | 1.00 | |
| 79776 | 31.76 | 68.24 | 3.20 | 0.96 | |
| 79781 | 30.21 | 69.79 | 4.62 | 1.21 | |
| 79782 | 34.96 | 65.04 | 3.82 | 1.23 | |
| 80676 | 40.16 | 59.84 | 2.62 | 0.83 | Excess of water. |
| 81228 | 31.58 | 68.42 | 2.84 | 0.78 | |
| 81229 | 34.43 | 65.57 | 3.02 | 0.85 | |
| 81230 | 36.38 | 63.62 | 3.16 | 1.07 | |
| 81231 | 32.68 | 67.32 | 2.76 | 0.83 | |
| 81240 | 39.68 | 60.32 | 3.04 | 0.91 | Excess of water. |
| 81247 | 35.53 | 64.47 | 4.24 | 0.94 | |
| 81249 | 32.00 | 68.00 | 3.10 | 0.97 | |
| 81250 | 35.98 | 64.02 | 3.46 | 1.04 | |
| 84436 | 30.98 | 69.02 | 3.72 | 1.11 | |
| 80587 | 32.43 | 67.57 | 3.84 | 0.94 | |
| 84101 | 34.78 | 65.22 | 3.10 | 0.93 | |
| 80011 | 36.13 | 63.87 | 3.58 | 1.26 | |
| 80012 | 32.68 | 67.32 | 3.76 | 1.21 | |
| 80013 | 33.88 | 66.12 | 4.70 | 1.05 | |
| 80014 | 31.38 | 68.62 | 4.14 | 1.06 | |
| 80015 | 35.88 | 64.12 | 3.94 | 1.15 | |
| 80016 | 35.18 | 64.82 | 4.84 | 1.36 | |
| 84435 | 30.33 | 69.67 | 3.80 | 1.34 | |
| 80603 | 33.48 | 66.52 | 2.94 | 1.05 | |
| 79434 | 34.51 | 65.49 | 4.08 | 0.91 | |
| 79435 | 28.51 | 71.49 | 2.70 | 0.85 | |
| 79440 | 32.81 | 67.19 | 3.54 | 0.74 | |
| 79444 | 37.56 | 62.44 | 3.22 | 1.00 | |
| 80626 | 35.41 | 64.59 | 5.40 | 0.92 | |
| 80827 | 29.31 | 70.69 | 5.18 | 0.85 | |
| 80017 | 29.31 | 70.69 | 3.88 | 0.76 | |
| 81837 | 35.16 | 64.84 | 4.06 | 1.03 | |
| 84446 | 31.41 | 68.59 | 2.84 | 0.89 | |
| 84109 | 33.26 | 66.74 | 2.56 | 1.01 | |
| 84110 | 33.86 | 66.14 | 4.84 | 0.99 | |
| 84301 | 45.96 | 54.04 | 4.64 | 1.11 | |
| 83031 | 36.61 | 63.39 | 2.60 | 0.74 | Excess of water. |
| 83035 | 35.20 | 64.80 | 3.36 | 0.96 | |
| 84434 | 33.81 | 66.19 | 3.33 | 0.86 | |

Sample.

52903
81839
52901
52906
84186
68581
80632
84183
79432
80657
79778
79780
79773
81848

52904
80011
79777
81844
81839
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81840
79765
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79432
83022
80611
*79968

*Gum pre
Reducing
Cane sugar
Proteids.

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TABLE B.

| Sample. | Water. % | Solids. % | Results on Dry Basis. | | | | | Malic acid value. |
|---------|-------------|--------------|-----------------------|---------|--------|-------------------|------------|-------------------------|
| | | | Lead Number. | | Ash. | | | |
| | | | Canadian. | Winton. | Total. | Water soluble. | Insoluble. | |
| 52903 | 31.96 | 68.04 | 2.46 | 1.53 | 0.61 | 0.38 | 0.23 | 0.51 |
| 81839 | 34.20 | 65.80 | 2.00 | 1.23 | 0.62 | 0.36 | 0.26 | 0.46 |
| 52901 | 32.44 | 67.56 | 2.01 | 1.45 | 0.73 | 0.57 | 0.16 | 0.66 |
| 52909 | 33.80 | 66.20 | 2.07 | 1.34 | 0.64 | 0.36 | 0.28 | 0.47 |
| 84180 | 28.39 | 71.61 | 1.67 | 1.12 | 0.57 | 0.32 | 0.25 | 0.32 |
| 68581 | 33.56 | 66.44 | 1.95 | 1.20 | 0.59 | 0.40 | 0.19 | 0.43 |
| 80632 | 33.20 | 66.80 | 2.26 | 1.66 | 0.77 | 0.52 | 0.25 | 0.64 |
| 84183 | 36.21 | 63.79 | 2.42 | 1.75 | 0.84 | 0.48 | 0.36 | 0.53 |
| 79432 | 37.58 | 62.42 | 1.99 | 1.17 | 0.58 | 0.32 | 0.26 | 0.46 |
| 80657 | 36.17 | 63.83 | 1.66 | 0.98 | 0.59 | 0.34 | 0.25 | 0.43 |
| 79778 | 32.30 | 67.70 | 2.51 | 1.64 | 0.71 | 0.47 | 0.24 | 0.56 |
| 79780 | 38.50 | 61.50 | 2.44 | 1.48 | 0.57 | 0.33 | 0.24 | 0.50 |
| 79773 | 39.17 | 60.83 | 2.31 | 1.58 | 0.77 | 0.47 | 0.30 | 0.60 |
| 81843 | 31.20 | 68.80 | 2.30 | 1.69 | 0.76 | 0.52 | 0.24 | 0.40 |

TABLE C.

ADULTERATED MAPLE SYRUPS.

| | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 52905 | 33.91 | 66.09 | 1.57 | 1.12 | 0.49 | 0.31 | 0.18 | 0.37 |
| 80018 | 39.65 | 60.35 | 0.86 | 0.40 | 0.31 | 0.19 | 0.12 | 0.16 |
| 79775 | 34.62 | 65.38 | 0.33 | 0.27 | 0.17 | 0.13 | 0.04 | 0.19 |
| 81842 | 35.45 | 64.55 | 0.34 | 0.41 | 0.24 | 0.15 | 0.09 | 0.23 |
| 81838 | 35.73 | 64.27 | 0.15 | 0.03 | 0.04 | ..... | ..... | 0.12 |
| 83415 | 35.69 | 64.31 | 0.75 | 0.68 | 0.29 | 0.23 | 0.06 | 0.20 |
| 81840 | 32.33 | 67.67 | 0.28 | 0.16 | 0.16 | 0.08 | 0.08 | 0.16 |
| 79767 | 34.57 | 65.43 | 1.88 | 1.14 | 0.52 | 0.37 | 0.15 | 0.53 |
| 79774 | 32.84 | 67.16 | 1.05 | 0.63 | 0.40 | 0.25 | 0.15 | 0.44 |
| 79433 | 36.18 | 63.82 | 0.12 | None. | 0.03 | ..... | ..... | 0.05 |
| 83021 | 36.61 | 63.39 | 0.32 | 0.54 | 0.25 | 0.20 | 0.05 | 0.31 |
| 80611 | 34.41 | 65.59 | 1.17 | 1.12 | 0.51 | 0.22 | 0.29 | 0.62 |
| *79965 | 67.14 | 32.86 | ..... | Trac. | ..... | ..... | ..... | ..... |

| | |
|-----------------------------------|-------|
| *Gum precipitated by alcohol..... | 6.44 |
| Reducing sugar..... | 13.68 |
| Cane sugar | 3.67 |
| Proteids..... | 2.63 |

Conclusion : Linseed decoction sweetened with sugar.

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF NOVA SCOTIA—

| | | | | | | | |
|----------|--------------|-------|---|--------|------|---------------------------------------|------------------------------|
| 1918. | | | | | | | |
| April 22 | Maple Syrup. | 83411 | H. C. Barnaby & Sons, Bridgewater, N.S. | 1 qt.. | 60 | Maples, Ltd., Toronto. | Unknown.. |
| " 25 | " | 83413 | W. J. Hopgood & Son, Halifax, N.S. | 1 " | 60 | A. W. Westover, Sutton Junction, P.Q. | Manufacturer.. |
| " 25 | " | 83414 | S. Smith & Son, Halifax, N.S. | 1 " | 64 | N. Crowe, Mapleton, N.S. | " |
| " 25 | " | 83415 | Cahill & Co., Halifax, N.S. | 3 bots | 1 00 | Canada Syrup Exchange, Montreal. | R. B. Seeton & Co., Halifax. |
| " 25 | " | 83416 | T. F. Courtney & Co., Halifax N.S. | 1 qt.. | 60 | A. J. Wiles, Westbrook, N.S. | ..... |

DISTRICT OF NEW BRUNSWICK—

| | | | | | | | |
|----------|--------------|-------|--|--------|------|--|---|
| April 15 | Maple Syrup. | 80011 | Kirkpatrick & Cowan, St. John, N.B. | 2 bots | 1 00 | A. H. Fairweather, Hampton, N.B. | ..... |
| " 16 | " | 80012 | Crystal Creamery, St. John, N.B. | 2 " | 1 20 | Roy S. Parlee, Parleeville, N.B. | ..... |
| " 16 | " | 80013 | F. E. Williams & Co., Ltd., St. John, N.B. | 2 " | 1 10 | L. D. Gunter, Bear Island, N.B. | ..... |
| " 17 | " | 80014 | P. Nase & Son, St. John, N.B. | 2 " | 1 10 | Geo. W. Bruce, Kingston, N.B. | ..... |
| " 17 | " | 80015 | J. E. Cowan, St. John, N.B. | 2 " | 90 | Alfred Brown & Sons, Upper Bear Island, N.B. | ..... |
| " 24 | " | 80016 | H. C. Jewitt, Fredericton, N.B. | 2 " | 1 00 | Edwin M. Currie, Macinqua. | ..... |
| " 25 | " | 80017 | H. M. Dewitt, Woodstock, N.B. | 2 " | 1 00 | M. H. McNally, Beechwood, N.B. | ..... |
| " 27 | " | 80018 | S. Simkervitz, Grand Falls, N.B. | 2 " | 1 00 | Maples, Ltd., Toronto. | G. E. Barbour Co., Ltd., St. John, N.B. |
| May 6 | " | 80019 | J. E. Quinn, City Market, St. John, N.B. | 2 " | 1 00 | Sussex Mercantile Co., Elgin, N.S. | ..... |
| " 7 | " | 80020 | J. R. Vanwart, St. John, N.B. | 1 qt.. | 65 | ..... | E. A. Allaby, St. John, N.B. |

DISTRICT OF QUEBEC CITY—

| | | | | | | | |
|---------|-----------------|-------|--|--------------------|----|--------------|-------|
| April 6 | Sirap d'erable. | 70488 | N. Lefrancois, Ange Gardien, P.Q. | $\frac{1}{2}$ qt.. | 14 | Vendor ..... | ..... |
| " 6 | " | 70489 | A. Jobidon, Chateau Richer, P.Q. | $\frac{1}{2}$ " | 15 | " | " |
| " 6 | " | 70490 | Adalbert Plante, St. Laurent, I.O., P.Q. | $\frac{1}{2}$ " | 17 | " | " |
| " 6 | " | 70491 | N. Ronsseau, St. Pierre, I.O., P.Q. | $\frac{1}{2}$ " | 17 | " | " |
| " 6 | " | 70492 | P. Letourneau, Ste. Famille, I.O., P.Q. | $\frac{1}{2}$ " | 17 | " | " |

MAPLE SYRUP.

ress
Furnisher
endor.

Furnisher.

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|----------------------|---------|-----------------------|---------|--------|-------------------|-----------|-------------------|----------------|---|
| | Water. | Solids. | Results on dry basis. | | | | | Malic Acid Value. | | |
| | | | Lead No. | | Ash. | | | | | |
| | | | Canadian | Winton. | Total. | Water Soluble. | Insoluble | | | |

A SCOTIA—

R. J. WAUGH, INSPECTOR.

Unknown...

Manufacturer...

"

B. Seeton &
Co., Halifax.

| | | | | | | | | | | |
|----------------------|-------|-------|------|-------|------|-------|-------|-------|-------|---------------|
| Rose Brand | 39.53 | 60.47 | 2.68 | ..... | 0.92 | ..... | ..... | ..... | 83411 | Excess water. |
| ..... | 32.53 | 67.47 | 3.82 | ..... | 1.11 | ..... | ..... | ..... | 83413 | |
| ..... | 30.48 | 69.52 | 3.02 | ..... | 1.00 | ..... | ..... | ..... | 83414 | |
| Canada's Best Brand. | 35.69 | 64.31 | 0.75 | 0.68 | 0.29 | 0.23 | 0.06 | 0.20 | 83415 | Adulterated. |
| ..... | 31.68 | 68.32 | 3.80 | ..... | 1.17 | ..... | ..... | ..... | 83416 | |

UNSWICK—

JOHN C. FERGUSON, INSPECTOR.

E. Barbour
Co., Ltd., St.
John, N.B.

A. Allaby, St
John, N.B.

| | | | | | | | | | | |
|----------|-------|-------|------|-------|------|-------|-------|-------|-------|---------------|
| ..... | 36.13 | 63.87 | 3.58 | ..... | 1.26 | ..... | ..... | ..... | 80011 | |
| ..... | 32.68 | 67.32 | 3.76 | ..... | 1.21 | ..... | ..... | ..... | 80012 | |
| ..... | 33.88 | 66.12 | 4.70 | ..... | 1.05 | ..... | ..... | ..... | 80013 | |
| ..... | 31.38 | 68.62 | 4.14 | ..... | 1.06 | ..... | ..... | ..... | 80014 | |
| ..... | 35.88 | 64.12 | 3.94 | ..... | 1.15 | ..... | ..... | ..... | 80015 | |
| ..... | 35.18 | 64.82 | 4.84 | ..... | 1.36 | ..... | ..... | ..... | 80016 | |
| ..... | 29.31 | 70.69 | 3.88 | ..... | 0.76 | ..... | ..... | ..... | 80017 | |
| Old Tyme | 39.65 | 60.35 | 0.86 | 0.40 | 0.31 | 0.19 | 0.12 | 0.16 | 80018 | Adulterated. |
| ..... | 32.29 | 67.71 | 4.00 | ..... | 1.15 | ..... | ..... | ..... | 80019 | |
| ..... | 39.64 | 60.36 | 4.14 | ..... | 1.12 | ..... | ..... | ..... | 80020 | Excess water. |

EBEC CITY—

LEON HARDY, ACTING INSPECTOR.

Pure.....

"

"

"

"

| | | | | | | | | | | |
|-----------|-------|-------|------|-------|------|-------|-------|-------|-------|--|
| Pure..... | 33.73 | 66.27 | 4.48 | ..... | 1.27 | ..... | ..... | ..... | 70488 | |
| " | 30.96 | 69.04 | 5.34 | ..... | 1.27 | ..... | ..... | ..... | 70489 | |
| " | 30.96 | 69.04 | 4.48 | ..... | 1.04 | ..... | ..... | ..... | 70490 | |
| " | 31.51 | 68.49 | 4.32 | ..... | 1.01 | ..... | ..... | ..... | 70491 | |
| " | 31.16 | 68.84 | 4.84 | ..... | 1.24 | ..... | ..... | ..... | 70492 | |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher, as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|--|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF QUEBEC CITY.—

| 1918 | | | | | | | |
|----------|-----------------|------|---------------------------------|-------|----|--------|-------|
| April 13 | Sirop d'érable. | 8103 | J. Turgeon, St. Anselme, P.Q. | ½ qt. | 18 | Vendor | ..... |
| " 13 | " | 8104 | E. Brochu, St. Henri, P.Q. | " | 17 | " | ..... |
| " 13 | " | 8105 | J. Pelchat, St. Charles, P.Q. | " | 15 | " | ..... |
| " 13 | " | 8106 | D. Roy, Ste. Claire, P.Q. | " | 17 | " | ..... |
| " 13 | " | 8107 | J. Beaumont, St. Anselme, P. Q. | " | 16 | " | ..... |

DISTRICT OF THREE RIVERS—

| | | | | | | | |
|---------|----------------|-------|--|-------|----|--------|-------|
| April 6 | Maple Syrup | 84804 | Lyman Connor, Ramsay, P. Q. | 1 qt. | 45 | Vendor | ..... |
| " 6 | " | 84807 | Euclide Charbonneau, St. Felix de Valois, P.Q. | " | 40 | " | ..... |
| " 8 | Sirop d'érable | 84808 | Edouard Joly, St. Cleophas, P. Q. | " | 45 | " | ..... |
| " 8 | " | 84810 | Vve. Stanislas Ducharme, St. Cleophas, P. Q. | " | 45 | " | ..... |
| " 9 | " | 84812 | Alfred Desrosiers, St. Felix de Valois, P. Q. | " | 45 | " | ..... |
| " 12 | " | 84818 | Henri Laferriere, St. Felix de Valois, P. Q. | " | 45 | " | ..... |
| " 12 | " | 84820 | Pierre Rondeau, St. Felix de Valois, P. Q. | " | 45 | " | ..... |
| " 12 | " | 84822 | Joseph Houde, Castel Hill, P. Q. | " | 40 | " | ..... |
| " 12 | " | 84827 | Chet Connor, Ramsay, P.Q. | " | 40 | " | ..... |

DISTRICT OF MONTREAL—

| | | | | | | | |
|---------|-------------|-------|--|--------|------|---|-------|
| April 1 | Maple Syrup | 84426 | John Muir, St. Peter St., Montreal. | 1 tin. | 2 00 | J. Atkin, W. Brome P. Q. | ..... |
| " 2 | " | 84427 | Stanislas Paquette, Bonsecours Market, Montreal. | 1 qt. | 50 | Stanislas Paquette, St. Paul, Abbotsford. | ..... |
| " 2 | " | 84428 | E. Chainiere, Bonsecours Market, Montreal. | " | 50 | E. Chainiere, Farnham, P. Q. | ..... |
| " 2 | " | 84430 | V. Darcey, Bonsecours Market, Montreal. | " | 50 | V. Darcey, Abbotsford, P.Q. | ..... |
| " 2 | " | 84431 | J. B. Darcey, Bonsecours Market, Montreal. | " | 50 | J. B. Darcey, Abbotsford, P.Q. | ..... |
| " 2 | " | 84432 | G. H. Falle, St. Antoine Market, Montreal. | " | 60 | J. A. Grubb, West Shefford, P.Q. | ..... |

MAPLE SYRUP.

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | | | | | No. of Sample | Remarks and Opinion of the Chief Analyst. | |
|--|----------------------|---------|-----------------------|---------|--------|-------------------|------------|---------------|--|-------------------|
| | Water. | Solids. | Results on dry basis. | | | | | | | Malic Acid Value. |
| | | | Lead No. | | Ash. | | | | | |
| | | | Canadian | Winton. | Total. | Water Soluble. | Insoluble. | | | |

Concluded.

| | | | | | | | | | |
|-----------|-------|-------|------|-------|------|-------|-------|------|---------------|
| Pure..... | 36-08 | 63-92 | 5-40 | ..... | 1-40 | ..... | ..... | 8103 | |
| " | 39-68 | 60-32 | 4-78 | ..... | 1-32 | ..... | ..... | 8104 | Excess water. |
| " | 33-11 | 66-89 | 4-14 | ..... | 0-98 | ..... | ..... | 8105 | |
| " | 38-21 | 61-79 | 5-24 | ..... | 1-12 | ..... | ..... | 8106 | Excess water. |
| " | 32-21 | 67-79 | 4-78 | ..... | 1-25 | ..... | ..... | 8107 | |

Dr V. P. LAVALLEE, INSPECTOR.

| | | | | | | | | | |
|-------|-------|-------|------|-------|------|-------|-------|-------|---------------|
| ..... | 34-21 | 65-79 | 4-56 | ..... | 1-19 | ..... | ..... | 84804 | |
| ..... | 34-71 | 65-29 | 3-56 | ..... | 0-98 | ..... | ..... | 84807 | |
| ..... | 33-41 | 66-59 | 4-12 | ..... | 1-23 | ..... | ..... | 84808 | |
| ..... | 41-71 | 58-29 | 4-48 | ..... | 1-03 | ..... | ..... | 84810 | Excess water. |
| ..... | 30-21 | 69-79 | 3-98 | ..... | 1-06 | ..... | ..... | 84812 | |
| ..... | 33-06 | 66-94 | 6-18 | ..... | 1-27 | ..... | ..... | 84818 | |
| ..... | 32-46 | 67-54 | 4-48 | ..... | 1-33 | ..... | ..... | 84820 | |
| ..... | 36-91 | 63-09 | 3-98 | ..... | 1-15 | ..... | ..... | 84822 | |
| ..... | 40-41 | 59-59 | 5-44 | ..... | 1-19 | ..... | ..... | 84827 | Excess water. |

J. J. COSTIGAN, INSPECTOR.

| | | | | | | | | | |
|-------|-------|-------|------|-------|------|-------|-------|-------|--|
| ..... | 34-71 | 65-29 | 4-06 | ..... | 0-98 | ..... | ..... | 84426 | |
| ..... | 31-68 | 68-32 | 4-16 | ..... | 1-09 | ..... | ..... | 84427 | |
| ..... | 32-69 | 67-31 | 4-24 | ..... | 0-96 | ..... | ..... | 84428 | |
| ..... | 30-96 | 69-04 | 3-68 | ..... | 1-07 | ..... | ..... | 84430 | |
| ..... | 31-41 | 68-59 | 3-62 | ..... | 0-88 | ..... | ..... | 84431 | |
| ..... | 37-36 | 62-64 | 4-44 | ..... | 1-00 | ..... | ..... | 84432 | |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF MONTREAL—

| 1918 | | | | | | | |
|---------|--------------|-------|---|---------|----|------------------------|-----------------------|
| April 2 | Maple Syrup. | 84433 | Lathowky & Sons St. Antoine Market, Montreal. | 1 Qt. | 75 | W. Logan, Howich, P.Q. | |
| " 2 | " | 84434 | Canada Maple Exchange, Ltd., 344 De Lorimier Ave. | 1 " | 50 | Vendors | |
| " 2 | " | 84435 | H. Desnoyers, St. James Market. | 1 " | 65 | | |
| " 11 | " | 84436 | A. Landry & Co., St. Lawrence Market. | 3 bots. | 60 | | Z. Limoges, Montreal. |
| " 20 | " | 84453 | Maple Tree Produces, Assn. Ltd., Wellington St. | 1 qt. | 50 | Vendors | |
| " 20 | " | 84454 | " " | 3 tins. | 50 | " | |
| May 1 | " | 84455 | Small's, Ltd., Parthenais, St., Montreal. | 3 bots. | 88 | " | |

DISTRICT OF VALLEYFIELD—

| | | | | | | | |
|----------|--------------|-------|--------------------------------------|-------|----|-----------------------------------|--|
| April 19 | Maple Syrup. | 84437 | E. R. Biron, Valleyfield, P.Q. | 1 Qt. | 45 | | |
| " 19 | " | 84438 | E. Bougie, Valleyfield, P.Q. | 1 " | 65 | Joseph Benoit, Hinchinbrook, P.Q. | |
| " 23 | " | 84444 | A. Henderson, Herdman, P.Q. | 1 " | 50 | Lorenzo McClatchie, Herdman, P.Q. | |
| " 23 | " | 84446 | Pringle Starke Co., Huntingdon, P.Q. | 1 " | 40 | J. McMillan, Rockburn, P.Q. | |
| " 26 | " | 84447 | M. Martel, St. Lambert, P.Q. | 1 " | 60 | W. H. Coursen, Glen Sutton, P.Q. | |
| " 26 | " | 84449 | S. Duval, St. Lambert, P.Q. | 1 " | 50 | Harold Crowell, Dunkin, P.Q. | |
| " 29 | " | 84450 | L. P. Pattee, Hawkesbury, Ont. | 1 " | 50 | Geo. Bangs, Hawkesbury, Ont. | |
| " 29 | " | 84451 | Laurin Frères, Hawkesbury, Ont. | 1 " | 50 | J. Lorette, Chute au Blondeau. | |
| " 29 | " | 84452 | Banford & Dunning, Hawkesbury, Ont. | 1 " | 50 | Allan Cass, L'Orignal, Ont. | |

DISTRICT OF OTTAWA—

| | | | | | | | |
|---------|--------------|-------|-------------------------------------|---------|------|-------------------------------|-------------------------|
| Mar. 25 | Maple Syrup. | 80569 | M. S. Klar, Pembroke. | 3 bots. | 1.50 | The Bowes Co., Ltd., Toronto. | Hunter & Co., Pembroke. |
| April 5 | " | 80584 | J. G. Quackenbush, Smith's Falls. | 1 qt. | 45 | John Code, Smith's Falls. | |
| " 6 | " | 80586 | Williams & Vanluven, Smith's Falls. | 1 " | 50 | Forde | |
| " 6 | " | 80587 | J. A. Ferguson, Smith's Falls. | 1 " | 45 | Mrs. Price | |
| " 6 | " | 80588 | F. W. Miskelly, Smith's Falls. | 1 " | 50 | Richard Duffy | |

Inspect (Is not an of of

Concluded—

J. J. CO

J. A. RI

Pure ..

MAPLE SYRUP.

| Inspector's Report (Is not an expression of opinion). | Results of Analysis. | | | | | | | No. of Sample. | Remarks, and Opinion of the chief Analyst. |
|---|----------------------|---------|-----------------------|---------|--------|----------------|-------------------|----------------|--|
| | Water. | Solids. | Results on dry basis. | | | | Malic Acid Value. | | |
| | | | Lead No. | | Ash. | | | | |
| | | | Canadian. | Winton. | Total. | Water Soluble. |  |  |  | Insoluble. |

Concluded.

| | | | | | | | | |
|---------------------|-------|-------|------|-------|------|-------|-------|-------|
| ..... | 34-31 | 65-69 | 4-02 | ..... | 1-15 | ..... | ..... | 84433 |
| ..... | 33-81 | 66-19 | 3-33 | ..... | 0-86 | ..... | ..... | 84434 |
| ..... | 30-33 | 69-67 | 3-80 | ..... | 1-34 | ..... | ..... | 84435 |
| m o g e s, real. | 30-98 | 69-02 | 3-72 | ..... | 1-11 | ..... | ..... | 84436 |
| ..... | 33-13 | 66-87 | 3-42 | ..... | 1-10 | ..... | ..... | 84438 |
| ..... | 31-34 | 68-66 | 3-24 | ..... | 1-00 | ..... | ..... | 84454 |
| ..... | 35-98 | 64-02 | 3-96 | ..... | 1-00 | ..... | ..... | 84455 |

J. J. COSTIGAN, ACTING INSPECTOR.

| | | | | | | | | |
|-------|-------|-------|------|-------|------|-------|-------|-------|
| ..... | 31-49 | 68-51 | 4-62 | ..... | 1-06 | ..... | ..... | 84437 |
| ..... | 32-69 | 67-31 | 4-18 | ..... | 0-99 | ..... | ..... | 84438 |
| ..... | 31-59 | 68-41 | 3-98 | ..... | 1-05 | ..... | ..... | 84444 |
| ..... | 31-41 | 68-59 | 2-84 | ..... | 0-89 | ..... | ..... | 84446 |
| ..... | 37-09 | 62-91 | 4-22 | ..... | 1-06 | ..... | ..... | 84447 |
| ..... | 37-54 | 62-46 | 3-54 | ..... | 1-13 | ..... | ..... | 84449 |
| ..... | 33-83 | 66-17 | 4-94 | ..... | 1-28 | ..... | ..... | 84450 |
| ..... | 34-33 | 65-67 | 5-62 | ..... | 1-29 | ..... | ..... | 84451 |
| ..... | 31-07 | 68-93 | 5-74 | ..... | 1-24 | ..... | ..... | 84452 |

J. A. RICKEY, INSPECTOR.

| | | | | | | | | |
|-------------|-------|-------|------|-------|------|-------|-------|-------|
| Pure, | 34-06 | 65-94 | 3-36 | ..... | 1-24 | ..... | ..... | 80569 |
| ..... | 34-71 | 65-29 | 4-10 | ..... | 1-07 | ..... | ..... | 80584 |
| ..... | 33-41 | 66-59 | 3-72 | ..... | 0-82 | ..... | ..... | 80586 |
| ..... | 32-43 | 67-57 | 3-84 | ..... | 0-94 | ..... | ..... | 80587 |
| ..... | 34-71 | 65-29 | 4-58 | ..... | 1-02 | ..... | ..... | 80588 |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher, as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|--|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF OTTAWA,—

| | | | | | | | |
|----------|-------------|-------|--|---------|------|--------------------------------------|---------------------------|
| 1918 | | | | | | | |
| April 12 | Maple Syrup | 80597 | H. Shore, Byward Market, Ottawa. | 1 Tin. | 1.50 | E. Caldwell, Brome, P. Q. | |
| " 16 | " | 80603 | W. A. Hunter & Sons, Pembroke. | 1 Bot. | 60 | The Bowes Co., Ltd, Toronto. | |
| " 23 | " | 80611 | A. Whitehorne, Westboro. | 3 bots. | 1.05 | Maples Ltd, Toronto. | |
| " 26 | " | 80622 | J. Bambrick, Ottawa. | 1 tin. | 1.75 | E. C. Drew, R.R. No. 1, Dunham, P.Q. | |
| " 30 | " | 80626 | P. Devine, Byward Market, Ottawa. | 1 qt. | 50 | B. Pope, Harlem, Ont. | |
| " 30 | " | 80627 | Wall & Co., Byward Market, Ottawa. | " | 60 | Brophy Bros., Harrison's Corners. | |
| May 3 | " | 80632 | Matthews Blackwell, Lewis & Bank Street, Ottawa. | 3 bots. | 75 | Small's Ltd, Montreal. | |
| " 18 | " | 80657 | McDonald Bros., Gladstone Ave, Ottawa. | 1 bot. | 50 | Habitant Syrup Co., Montreal. | |
| " 29 | " | 80676 | C. S. Colquhoun, Morrisburg. | 3 bots. | 1.50 | Maples Ltd, Toronto. | Laporte Martin, Montreal. |

DISTRICT OF KINGSTON,—

| | | | | | | | |
|---------|-------------|--------|----------------------------------|-------|----|--|--|
| Mar. 28 | Maple Syrup | 79964 | H. E. Bell, Collins Bay, Ont. | 1 qt. | 60 | | |
| " 28 | " | *79965 | N. J. Babcock, Cataraqui. | " | 50 | | |
| " 28 | " | 79966 | W. R. Farquharson, R.R. No. 1. | " | 60 | | |
| " 28 | " | 79967 | O. Marks, Sydenham, Ont. | " | 50 | | |
| " 30 | " | 79968 | G. L. Cadatt, Westbrook, Ont. | " | 60 | | |
| " 30 | " | 79969 | J. E. Brash, Cataraqui, Ont. | " | " | | |
| " 30 | " | 79970 | S. Snider, Odessa, Ont. | " | " | | |
| " 30 | " | 79971 | J. A. Cowdy, Harrowsmith, Ont. | " | " | | |
| " 30 | " | 79972 | C. Fraser, Elginburg, Ont. | " | 50 | | |
| " 30 | " | 79973 | K. J. Valentine, Odessa, R. M.D. | " | 60 | | |

* Gum precipitated by alcohol, 6.44%. Reducing sugar 13.68%. Cane Sugar, 3.67%. Proteids,

MAPL

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Pure...

Pure...

Rose Br

Canadia

Pure Br

Small's

Habitat

Boy,

Rose Br

JAME

Purcha

Mark

2.63%

MAPLE SYRUP.

| Inspector's Report. Is not an expression of opinion.) | Results of Analysis. | | | | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. | |
|---|----------------------|---------|-----------------------|---------|--------|----------------|------------|--|----------------|---|-------------------|
| | Water. | Solids. | Results on dry basis. | | | | | | | | Malic Acid Value. |
| | | | Lead No. | | Ash. | | | | | | |
| | | | Canadian. | Winton. | Total. | Water Soluble. | Insoluble. | | | | |

Concluded.

| | | | | | | | | | | |
|---------------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|---------------|
| Pure. | 37.51 | 62.49 | 3.84 | ..... | 0.99 | ..... | ..... | ..... | 80597 | |
| Pure. | 33.48 | 66.52 | 2.94 | .... | 1.05 | ..... | ..... | ..... | 80603 | |
| Rose Brand, Pure. | 34.41 | 65.59 | 1.17 | 1.12 | 0.51 | 0.22 | 0.29 | 0.62 | 80611 | Adulterated. |
| Canadian Emblem. | 34.96 | 65.04 | 3.84 | ..... | 1.07 | ..... | ..... | ..... | 80622 | |
| Pure Brand. | 35.41 | 64.59 | 5.40 | ..... | 0.92 | ..... | ..... | ..... | 80626 | |
| ..... | 29.31 | 70.69 | 5.18 | ..... | 0.85 | ..... | ..... | ..... | 80627 | |
| Small's Standard Pure. | 33.20 | 66.80 | 2.26 | 1.66 | 0.77 | 0.52 | 0.25 | 0.64 | 80632 | |
| Habitant Mountain Boy, Pure. | 36.17 | 63.83 | 1.66 | 0.98 | 0.59 | 0.34 | 0.25 | 0.43 | 80657 | |
| Rose Brand, Pure. | 40.16 | 59.84 | 2.62 | ..... | 0.83 | ..... | ..... | ..... | 80676 | Excess Water. |

JAMES HOGAN, INSPECTOR.

| | | | | | | | | | | |
|----------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|---------------|
| Purchased at Kingston Market. | 34.71 | 65.29 | 3.80 | ..... | 1.04 | ..... | ..... | ..... | 79964 | |
| " " | 67.14 | 32.86 | Trace. | ..... | ..... | ..... | ..... | ..... | 79965 | Adulterated. |
| " " | 34.66 | 65.34 | 3.56 | ..... | 1.14 | ..... | ..... | ..... | 79966 | |
| " " | 37.76 | 62.24 | 3.64 | ..... | 1.12 | ..... | ..... | ..... | 79967 | |
| " " | 40.91 | 59.09 | 3.48 | ..... | 1.11 | ..... | ..... | ..... | 79968 | Excess Water. |
| " " | 31.16 | 68.84 | 4.52 | ..... | 1.09 | ..... | ..... | ..... | 79969 | |
| " " | 36.41 | 63.59 | 4.44 | ..... | 1.13 | ..... | ..... | ..... | 79970 | |
| " " | 33.11 | 66.89 | 3.58 | ..... | 1.27 | ..... | ..... | ..... | 79571 | |
| " " | 35.81 | 64.19 | 3.94 | ..... | 1.07 | ..... | ..... | ..... | 79972 | |
| " " | 38.21 | 61.79 | 4.58 | ..... | 1.24 | ..... | ..... | ..... | 79973 | Excess Water. |

2.63% Conclusion. Linseed decoction, sweetened with sugar, A. V.

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF TORONTO-

| 1918. | | | | | | | |
|-------|----|--------------|-------|---|---------|------|--|
| May | 6 | Maple Syrup. | 84175 | J. B. Hagan, 693 Bloor St., W. Toronto. | 3 bots. | 1.20 | Sewell H. Salisbury, Brome, Que. |
| " | 7 | " | 84176 | Loblaw Stores, 891 Queen St., E. Toronto. | 1 qt. | 59 | Unknown |
| " | 9 | " | 84178 | A. Empringham, 1580 Danforth Ave., Toronto. | 1 " | 50 | J. Empringham, Gerrard Street Toronto. |
| " | 9 | " | 84179 | J. M. Evans & Co., 2923 Dundas St., W. Toronto. | 3 bots. | 1.20 | Maple Free Producer Assn., Montreal. |
| " | 10 | " | 84180 | The Bowes & Co., Ltd., Front St., E. Toronto. | 70 " | 1.08 | Vendors |
| " | 11 | " | 84181 | J. R. Richards, 239 Pape Ave., Toronto. | 3 jars | 80 | White & Co., Toronto. |
| " | 11 | " | 84182 | A. Taylor, 966 Gerrard St., E. Toronto. | 3 bots. | 1.05 | Maples Ltd, Toronto |
| " | 11 | " | 84183 | J. Barron, 1442 Gerrard St., E. Toronto. | 3 " | 90 | Small's Ltd., Montreal. |
| " | 13 | " | 84184 | A. Thompson, 157 King St., Toronto. | 1 qt. | 65 | C. B. Hall, Barnston, Que. |
| " | 13 | " | 84100 | Clark & Dillon, 389 Church St., Toronto. | 3 jars | 75 | Mayer, Toronto |
| " | 28 | " | 84301 | Maples Ltd., 272 Van Horne St., Toronto. | 3 bots. | 75 | Vendors |

DISTRICT OF HAMILTON-

| | | | | | | | |
|-------|----|--------------|-------|---|----------|------|------------------------------|
| April | 19 | Maple Syrup. | 84101 | J. D. Cummings, 445 Wentworth St., N. Hamilton. | 3 bots. | 90 | Fearman Bros. Ltd., Hamilton |
| " | 20 | " | 84102 | F. A. Crooks, Beamsville... | 1/2 gal. | 1.25 | John Hicks, Beamsville. |
| " | 20 | " | 84103 | Robt. Robinson, Capetown. | 3 cans | 1.05 | Vendor |
| " | 20 | " | 84104 | Thos. Evans, Glanford Station, R.R. No. 1. | 3 " | 1.20 | " |
| " | 24 | " | 84105 | E. Hoover, Dunnville | 1 qt. | 55 | Maples Ltd., Toronto |
| " | 24 | " | 84106 | A. L. Brickwell, Dunnville. | 1 " | 60 | L. & L. Ricker, Canfield. |
| " | 24 | " | 84107 | Dunnville Arcade, Dunnville. | 1 " | 59 | Unknown |
| " | 26 | " | 84108 | J. S. O'Neil, Main St., E. Welland. | 3 bots. | 90 | Small's Ltd., Montreal. |
| " | 27 | " | 84109 | W. Teeft, Ridgeville | 1 qt. | 75 | Vendor |
| " | 27 | " | 84110 | J. V. Fradenburg & Son, Cayuga, R.R. No. 2. | 3 pts. | 1.00 | " |
| " | 27 | " | 84166 | G. A. Tinlin, Beamsville. | 1 qt. | 75 | " |

MAPLE SYRUP.

No. 409—

Manufacturer
or
Endor.

Furnisher.

| Inspector's Report, (Is not an expression of opinion.) | Results of Analysis. | | | | | | | | Remarks and Opinion of the Chief Analyst. | |
|--|-----------------------|---------|------------------|---------|--------|-------------------|------------|-----------------------|---|----------------|
| | Results on dry Basis. | | | | | | | | | |
| | Water. | Solids. | Lead No. | | Ash. | | | Maltic Acid Value. | | No. of Sample. |
| | | | Canada- dian. | Winton. | Total. | Water Soluble. | Insoluble. | | | |

TORONTO—

H. J. DAGER, INSPECTOR.

| | | | | | | | | | | |
|--|-------|-------|------|-------|------|-------|-------|-------|-------|-------------------------------------|
| Pure | 31.82 | 68.18 | 3.30 | ..... | 1.31 | ..... | ..... | ..... | 84175 | |
| ..... | 33.33 | 66.67 | 4.26 | ..... | 1.16 | ..... | ..... | ..... | 84176 | |
| ..... | 33.33 | 66.67 | 4.44 | ..... | 1.19 | ..... | ..... | ..... | 84178 | |
| Empingham, Ferrard Street Toronto. | 29.73 | 70.27 | 3.60 | ..... | 1.22 | ..... | ..... | ..... | 84179 | |
| ..... | 28.39 | 71.61 | 1.67 | 1.12 | 0.57 | 0.32 | 0.25 | 0.32 | 84180 | |
| ..... | 32.13 | 67.87 | 3.30 | ..... | 0.74 | ..... | ..... | ..... | 84181 | |
| White & Co., Toronto. | 38.13 | 61.87 | 3.00 | ..... | 0.94 | ..... | ..... | ..... | 84182 | Excess water. |
| ..... | 36.21 | 63.79 | 2.42 | 1.75 | 0.84 | 0.48 | 0.26 | 0.53 | 84183 | |
| ..... | 35.23 | 64.77 | 3.80 | ..... | 1.03 | ..... | ..... | ..... | 84184 | |
| ..... | 32.58 | 67.42 | 3.76 | ..... | 1.12 | ..... | ..... | ..... | 84100 | |
| Rose Brand. Pure.... | 45.96 | 54.04 | 4.64 | ..... | 1.11 | ..... | ..... | ..... | 84301 | Large excess water. Adulterated. |

AMILTON—

H. J. DAGER, INSPECTOR.

| | | | | | | | | | | |
|--|-------|-------|------|-------|------|-------|-------|-------|-------|---------------|
| ..... | 34.78 | 65.22 | 3.10 | ..... | 0.93 | ..... | ..... | ..... | 84101 | |
| ..... | 40.84 | 59.16 | 3.84 | ..... | 1.26 | ..... | ..... | ..... | 84102 | Excess water. |
| Purchased at Hamil- ton Market. | 33.79 | 66.21 | 3.18 | ..... | 1.01 | ..... | ..... | ..... | 84103 | |
| " " | 31.34 | 68.66 | 3.54 | ..... | 0.93 | ..... | ..... | ..... | 84104 | |
| Rose Brand, Pure..... | 41.22 | 58.78 | 4.80 | ..... | 1.64 | ..... | ..... | ..... | 84105 | Excess water. |
| ..... | 33.88 | 66.12 | 3.70 | ..... | 1.28 | ..... | ..... | ..... | 84106 | |
| ..... | 37.68 | 62.32 | 4.32 | ..... | 1.39 | ..... | ..... | ..... | 84107 | |
| Small's Standard Pure. | 33.45 | 66.55 | 2.64 | ..... | 0.96 | ..... | ..... | ..... | 84108 | |
| Purchased at St. Catha- rines Market. | 33.26 | 66.74 | 2.56 | ..... | 1.01 | ..... | ..... | ..... | 84109 | |
| " " | 33.86 | 66.14 | 4.84 | ..... | 0.99 | ..... | ..... | ..... | 84110 | |
| " " | 36.51 | 63.49 | 4.94 | ..... | 1.47 | ..... | ..... | ..... | 84166 | |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF WINDSOR—

| | | | | | | | |
|---------|--------------|-------|---|-------|----|------------------|------------------------------|
| 1918. | | | | | | | |
| Feb. 23 | Maple Syrup. | 81228 | J. S. Haskett, Denfield, No. 4. | 1 qt. | 60 | Vendor..... | |
| " 23 | " | 81229 | J. C. Gray, Komoka.... | 1 " | 55 | " | |
| " 23 | " | 81230 | E. D. Bycraft, Ilderton, No. 2. | 1 " | 60 | " | |
| " 23 | " | 81231 | Fred. Eichenberger, Lambeth R.R. No. 1. | 1 " | 65 | " | |
| " 23 | " | 81232 | C. Crawford, Ilderton, R.R. No. 4. | 1 " | 60 | " | |
| April 1 | " | 81240 | W. T. Strachan, Glencoe... | 1 " | 55 | J. M. Graham.... | |
| " 1 | " | 81242 | Chas. George, Glencoe.... | 1 " | 56 | ..... | Mr. Sidall..... |
| " 2 | " | 81245 | J. P. Rogers & Co., St. Mary's, Ont. | 1 " | 55 | ..... | Mr. Muxworthy, Hensel. |
| " 2 | " | 81247 | F. W. Hutton, St. Mary's, Ont. | 1 " | 55 | ..... | S. Daley..... |
| " 3 | " | 81249 | Oman & Mallion, Stratford | 1 " | 75 | ..... | W. H. Howe, Maplewood. |
| " 3 | " | 81250 | A. Beattie & Co., Stratford. | 1 " | 55 | ..... | Vernan Dennis, Burgessville. |

DISTRICT OF NORTHERN ONTARIO—

| | | | | | | | |
|---------|--------------|-------|----------------------------------|---------|----|---------------------------------------|--|
| April 1 | Maple Syrup. | 79432 | D. Legault, Charlton, Ont. | 3 bts. | 90 | Canada Syrup Exchange, Montreal. | |
| " 6 | " | 79433 | E. Pilon, Cobalt..... | 3½ pts. | 50 | ..... |  |
| " 10 | " | 79434 | F. C. Preston & Co., Haileybury. | 3 " | 65 | E. C. Drew, R.R. No. 1, Dunham, Que. | |
| " 11 | " | 79435 | Perkins & Co., Cochrane, Ont. | 3 " | 35 | Purity Syrup Co., Montreal. | |
| " 18 | " | 79440 | Orsola Giachino, Cobalt.... | 3½ " | 75 | Maple Tree Producers Assn., Montreal. | |
| " 25 | " | 79444 | The Starr Grocery, North Bay. | 3½ " | 48 | H. H. Layng, Smith's Falls. | |

DISTRICT OF MANITOBA—

| | | | | | | | |
|----------|--------------|-------|--|--------|----|--|-----------------------------|
| April 23 | Maple Syrup. | 79767 | La Maison Blanche, 13 Provencher Ave., St. Boniface. | 3 bts. | 55 | Purity Syrup Co., Montreal. | Hudson's Bay Co., Winnipeg. |
| May 7 | " | 78772 | Nation & Shewan, 806 Rosser Ave., Brandon. | 3 " | 75 | Fair Bros., Hoptown, Ont. | |
| " 8 | " | 79773 | Imperial Grocery Co., 601 Rosser Ave., Brandon. | 3 " | 65 | ..... | Unknown.... |
| " 8 | " | 79774 | E. Bolton, 103 Rosser Ave., Brandon. | 3 " | 60 | East. T. Maple Sugar Exchange, Sutton. | |

MAPLE

Inspector (Is not an of opi

JOHN TA

Purchased Market.

THOS. E.

J. B. CO

Purity Br

Pure....

"

"

MAPLE SYRUP.

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | | | | | No. of Sample. | Remarks, and Opinion of the Chief Analyst. |
|--|----------------------|---------|-----------------------|---------|--------|----------------|-------------------|----------------|--|
| | Water. | Solids. | Results on dry basis. | | | | Malic Acid Value. | | |
| | | | Lead No. | | Ash. | | | | |
| | | | Canadian | Winton. | Total. | Water Soluble. |  |  |  | Insoluble |

JOHN TALBOT, INSPECTOR.

| | | | | | | | | | | |
|----------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|---------------|
| Purchased & London Market. | 31-58 | 68-42 | 2-84 | ..... | 0-78 | ..... | ..... | ..... | 81228 | |
| " " | 34-43 | 65-57 | 3-02 | ..... | 0-85 | ..... | ..... | ..... | 81229 | |
| " " | 36-38 | 63-62 | 3-16 | ..... | 1-07 | ..... | ..... | ..... | 81230 | |
| " " | 32-68 | 67-32 | 2-76 | ..... | 0-83 | ..... | ..... | ..... | 81231 | |
| " " | 42-14 | 57-86 | 3-58 | ..... | 1-12 | ..... | ..... | ..... | 81232 | Excess Water. |
| " " | 39-68 | 60-32 | 3-04 | ..... | 0-91 | ..... | ..... | ..... | 81240 | Excess Water. |
| " " | 37-79 | 62-21 | 4-02 | ..... | 1-06 | ..... | ..... | ..... | 81242 | |
| " " | 33-86 | 66-14 | 3-80 | ..... | 1-09 | ..... | ..... | ..... | 81245 | |
| " " | 35-53 | 64-47 | 4-24 | ..... | 0-94 | ..... | ..... | ..... | 81247 | |
| " " | 32-00 | 68-00 | 3-10 | ..... | 0-97 | ..... | ..... | ..... | 81249 | |
| " " | 35-98 | 64-02 | 3-46 | ..... | 1-04 | ..... | ..... | ..... | 81250 | |

THOS. E. ARMSTRONG, INSPECTOR.

| | | | | | | | | | | |
|-------|-------|-------|------|-------|------|-------|-------|-------|-------|--------------|
| ..... | 37-58 | 62-42 | 1-99 | 1-17 | 0-58 | 0-32 | 0-26 | 0-46 | 79432 | |
| ..... | 36-18 | 63-82 | 0-12 | None. | 0-03 | ..... | ..... | 0-06 | 79433 | Adulterated. |
| ..... | 34-51 | 65-49 | 4-08 | ..... | 0-91 | ..... | ..... | ..... | 79434 | |
| ..... | 28-51 | 71-49 | 2-70 | ..... | 0-85 | ..... | ..... | ..... | 79435 | |
| ..... | 32-81 | 67-79 | 3-54 | ..... | 0-74 | ..... | ..... | ..... | 79440 | |
| ..... | 37-56 | 62-44 | 3-22 | ..... | 1-00 | ..... | ..... | ..... | 79441 | |

J. B. COSGROVE, INSPECTOR.

| | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Purity Brand..... | 34-57 | 65-43 | 1-38 | 1-14 | 0-52 | 0-37 | 0-15 | 0-53 | 79767 | Adulterated. |
| Pure..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 79772 | Broken. |
| "..... | 39-17 | 60-83 | 2-31 | 1-58 | 0-77 | 0-47 | 0-20 | 0-60 | 79773 | Excess water. |
| "..... | 32-84 | 67-16 | 1-05 | 0-63 | 0-40 | 0-25 | 0-15 | 0-44 | 79774 | Adulterated. |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher, as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|--|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF MANITOBA—

| | | | | | | | |
|--------|--------------|-------|--|---------|------|--------------------------------------|------------------------------|
| 1918 | | | | | | | |
| May 11 | Maple Syrup. | 79775 | P. & B. Stores, 767 Portage Ave, Winnipeg. | 3 bots. | 1 50 | Gardiner Co., Toronto. | |
| " 11 | " | 79776 | J. Gadway, 755 Portage Ave, Winnipeg. | 3 " | 90 | Maple Tree Producers Assn., Montreal | |
| " 1 | " | 79778 | Alex Reid, 639 Rosser Ave, Brandon. | 3 " | 1 20 | Dingle & Stewart, Brandon. | |
| " 3 | " | 79780 | David Wilson, 1608 Princess Ave, Winnipeg. | 2 " | 65 | Kennedy Syrup Exchange, Montreal. | |
| " 13 | " | 79781 | Joseph Heile, 66 Provencher Ave, St. Boniface. | 3 " | 90 | | A. Gautier, St. Boniface. |
| " 13 | " | 79782 | La Maison Collin, 98 Provencher, St. Boniface. | 3 " | 90 | | C. C. Salisbury, Brome, Que. |

DISTRICT OF SASKATCHEWAN—

| | | | | | | | |
|---------|--------------|-------|--------------------------------------|---------|------|--------------------------------------|---|
| April 3 | Maple Syrup. | 81837 | H. E. Labrosse, Marcelin, Sask. | 1 qt. | 85 | Maple Tree Producers Assn., Montreal | |
| " 4 | " | 81838 | Podolsky Bros., Hafford... | 1 " | 65 | Canada Syrup Exchange, Montreal. | Cameron & Heap Ltd., Prince Albert, Sask. |
| " 17 | " | 81839 | Star Grocery, North Battleford. | 1 " | 60 | The Bowes Co., Toronto. | |
| " 18 | " | 81840 | J. W. Moody, North Battleford. | 1 " | 65 | Canada Maple Exchange, Montreal. | |
| " 23 | " | 81842 | Underwood & Davis, Turtleford. | 1 " | 55 | Gardiner Co., Toronto. | A. McDonald Co. N. Battleford |
| " 25 | " | 81843 | Pickle & Johnston, North Battleford. | 1 " | 75 | Maple Tree Producers Assn., Montreal | |
| May 27 | " | 83021 | Canadian Trading Co., Regina. | 3 cans. | 1 80 | Unknown | A. McDonald Co., Ltd. |
| " 30 | " | 83031 | Law & MacKay, Swift Current. | 3 bots. | 1 35 | The Bowes Co., Ltd., Toronto. | Macdonald Crawford, Ltd., Swift Current. |
| June 7 | " | 83035 | A. E. Ord, Moose Jaw..... | 3 " | 1 50 | E. J. Berry, Brome, P.Q. | Manufacturer... |

DISTRICT OF ALBERTA—

| | | | | | | | |
|----------|--------------|-------|--|--------|------|---------------------------------------|--|
| April 16 | Maple Syrup. | 52901 | Fisher & Springborn, New Market, Calgary. | 3 bots | 1.20 | The Bowes Co., Ltd., Toronto. | |
| " 18 | " | 52902 | T. E. Morrow, 508, 12th Ave. W., Calgary. | 1 bot. | 70 | " " | |
| " 18 | " | 52903 | Alex. McDonald, 1424, 17th Ave. W., Calgary. | 1 " | 60 | " " | |
| " 18 | " | 52904 | E. W. Spencer, 1203, 1st St. W., Calgary. | 1 " | 80 | Maple Tree Producers Assn., Montreal. | |
| " 18 | " | 52905 | Woollard's Grocery, 1307, 1st St. W., Calgary. | 3 bots | 1.20 | The Bowes Co., Ltd., Toronto. | |
| " 19 | " | 52906 | The John Irwin Co., Ltd., Calgary. | 1 bot. | 80 | Maple Tree Producers Assn., Montreal. | |
| " 24 | " | 52907 | James Ramsay, Ltd., Edmonton. | 1 tin. | 1.00 | | |

MAPLE SYRUP.

No. 409—

Manufacturer
by

Refiner.

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|----------------------|---------|-----------------------|---------|--------|-------------------|-----------|-------------------|----------------|---|
| | Water. | Solids. | Results on dry basis. | | | | | Malic Acid Value. | | |
| | | | Lead No. | | Ash. | | | | | |
| | | | Canadian | Winton. | Total. | Water Soluble. | Insoluble | | | |

NIOTBA—

Concluded.

| | | | | | | | | | | |
|--|-------|-------|------|------|------|------|------|------|-------|--------------|
| Pure M. Invoiced as Pure Maple Syrup and sold as such. | 34.62 | 65.38 | 0.33 | 0.27 | 0.17 | 0.13 | 0.04 | 0.19 | 79775 | Adulterated. |
| Pride of Canada. | 31.76 | 68.24 | 3.29 | ... | 0.96 | ... | ... | ... | 79776 | |
| Pure. | 32.30 | 67.10 | 2.51 | 1.64 | 0.71 | 0.47 | 0.24 | 0.56 | 79778 | |
| " | 38.50 | 61.50 | 2.44 | 1.48 | 0.57 | 0.33 | 0.24 | 0.50 | 79780 | |
| Gautier, St. niface. | 30.21 | 69.79 | 4.62 | ... | 1.21 | ... | ... | ... | 79781 | |
| Salisbury, ome, Que. | 34.96 | 65.04 | 3.82 | ... | 1.23 | ... | ... | ... | 79782 | |

HEWAN—

J. M. DANIS & L. H. HALL, INSPECTORS.

| | | | | | | | | | | |
|---|-------|-------|------|------|------|------|------|------|-------|--------------|
| ... | 35.16 | 64.84 | 4.06 | ... | 1.03 | ... | ... | ... | 81837 | |
| Iron & Heap d., Prince bert, Sask. | 35.73 | 64.27 | 0.15 | 0.03 | 0.04 | ... | ... | 0.12 | 81838 | Adulterated. |
| ... | 34.29 | 65.80 | 2.00 | 1.23 | 0.62 | 0.36 | 0.26 | 0.46 | 81839 | |
| ... | 32.33 | 67.77 | 0.28 | 0.16 | 0.16 | 0.08 | 0.08 | 0.16 | 81840 | Adulterated. |
| McDonald N. Battleford | 35.45 | 64.55 | 0.34 | 0.41 | 0.24 | 0.15 | 0.09 | 0.23 | 81842 | " |
| ... | 31.20 | 68.80 | 2.30 | 1.69 | 0.76 | 0.52 | 0.24 | 0.40 | 81843 | |
| McDonald s., Ltd. cdonald wford, Ltd., vift Current ufacturer... | 36.61 | 63.39 | 0.32 | 0.54 | 0.25 | 0.20 | 0.05 | 0.31 | 83021 | Adulterated. |
| "Bowes" | 36.61 | 63.39 | 2.60 | ... | 0.74 | ... | ... | ... | 83031 | |
| ... | 35.20 | 64.80 | 3.36 | ... | 0.96 | ... | ... | ... | 83033 | |

LBERTA—

A. W. R. MARKLEY, INSPECTOR.

| | | | | | | | | | | |
|--------------------------------------|-------|-------|------|------|------|------|------|------|-------|--------------|
| Pure | 32.44 | 67.56 | 2.01 | 1.45 | 0.73 | 0.57 | 0.16 | 0.66 | 52901 | |
| " | 27.98 | 72.02 | 2.52 | ... | 0.83 | ... | ... | ... | 52902 | |
| " | 31.96 | 68.04 | 2.46 | 1.53 | 0.61 | 0.38 | 0.32 | 0.51 | 52903 | |
| Pride of Canada, Pure. | 33.58 | 66.42 | 3.50 | ... | 1.04 | ... | ... | ... | 52904 | |
| Pure | 33.91 | 66.09 | 1.57 | 1.12 | 0.49 | 0.31 | 0.18 | 0.37 | 52905 | Adulterated. |
| Pride of Canada, Pure. | 30.57 | 69.43 | 3.30 | ... | 1.10 | ... | ... | ... | 52906 | |
| Rock's Eastern Town- ships, Pure. | 36.63 | 63.37 | 4.12 | ... | 1.15 | ... | ... | ... | 52907 | |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF ALBERTA—

| 1918. | | | | | | | |
|----------|-------------|-------|-----------------------------------|--------|----|---------------------------------------|-------|
| April 24 | Maple Syrup | 52908 | J. A. Hallier, Edmonton . . . | 1 tin. | 85 | Maple Tree Producers Assn., Montreal. | ..... |
| " 24 | " | 52909 | J. H. Morris Co., Ltd., Edmonton. | 1 bot. | 60 | The Bowes Co., Ltd., Toronto. | ..... |
| " 24 | " | 52910 | Johnstone Walker, Ltd., Edmonton. | 1 " | 75 | Ed. J. Berry, Bromo. Que. | ..... |

DISTRICT OF ROCKY MOUNTAINS—

| | | | | | | | |
|---------|-------------|-------|---------------------------------|---------|------|--------------------------------------|-------|
| April 3 | Maple Syrup | 68579 | Star Grocery, Nelson | 3 tins. | 1.95 | Kelly Confection Co., Vancouver. | ..... |
| " 3 | " | 68580 | The Ideal Cash Grocery, Nelson. | 3 " | 2.25 | Maple Tree Producers Assn, Montreal. | ..... |
| " 8 | " | 68581 | The Okanagan Grocery, Vernon. | 3 bots. | 2.10 | Small's Ltd., Montreal. | ..... |

MAPLE SYRUP.

| Inspector's Report (Is not an expression of opinion). | Results of Analysis. | | | | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|---|----------------------|---------|-----------------------|---------|--------|----------------|-----------|------------------|----------------|---|
| | Water. | Solids. | Results on dry basis. | | | | | Malic Acid Value | | |
| | | | Lead No. | | Ash. | | | | | |
| | | | Canadian | Winton. | Total. | Water Soluble. | Insoluble | | | |

Concluded.

| | | | | | | | | | |
|------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|
| Pride of Canada, Pure. | 34.48 | 65.57 | 3.94 | ..... | 1.34 | ..... | ..... | ..... | 52908 |
| Pure | 33.80 | 66.20 | 2.07 | 1.34 | 0.64 | 0.36 | 0.28 | 0.47 | 52909 |
| " | 32.98 | 67.02 | 3.36 | ..... | 1.11 | ..... | ..... | ..... | 52910 |

THOS. PARKER, INSPECTOR.

| | | | | | | | | | |
|------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|
| ..... | 32.43 | 67.57 | 3.18 | ..... | 0.97 | ..... | ..... | ..... | 68579 |
| Pride of Canada, | 33.33 | 66.67 | 3.26 | ..... | 0.91 | ..... | ..... | ..... | 68580 |
| Small's | 33.56 | 66.44 | 1.95 | 1.20 | 0.59 | 0.40 | 0.19 | 0.43 | 68581 |

No. 409—

Manufacturer
given by
r.

Furnisher.

ALBERTA—

ONTARIO—